

Gonzaga University

2024-2025 Undergraduate Catalog



Mission Statement

Gonzaga University is an exemplary learning community that educates students for lives of leadership and service for the common good.

In keeping with its Catholic, Jesuit, and humanistic heritage and identity, Gonzaga models and expects excellence in academic and professional pursuits and intentionally develops the whole person -- intellectually, spiritually, culturally, physically, and emotionally.

Through engagement with knowledge, wisdom, and questions informed by classical and contemporary perspectives, Gonzaga cultivates in its students the capacities and dispositions for reflective and critical thought, lifelong learning, spiritual growth, ethical discernment, creativity, and innovation.

The Gonzaga experience fosters a mature commitment to dignity of the human person, social justice, diversity, intercultural competence, global engagement, solidarity with the poor and vulnerable, and care for the planet. Grateful to God, the Gonzaga community carries out this mission with responsible stewardship of our physical, financial, and human resources.

Introduction

What's in a Name?

The University is named after the 16th-century Italian Jesuit saint Aloysius Gonzaga. A descendant of a noble Renaissance family and a page at the court of Francesco de Medici, Aloysius Gonzaga entered the Society of Jesus (the Jesuit order) in 1585. Later, while a seminarian in plague-stricken Rome, he attended to the sick and dying; as a result of his heroic service, he died of exhaustion on June 21, 1591, only 23 years old. He was declared the patron saint of youth in 1726.

Quality That Earns National Recognition

U.S. News and World Report's most recent America's Best Colleges ranked Gonzaga in the top 100 National Universities. Fiske Guide to Colleges, Kiplinger's Best Colleges and The Princeton Review have also consistently praised the academic strength and quality of education provided at Gonzaga University.

Spokane and the Inland Northwest

Spokane, Washington and Coeur d'Alene, Idaho, form a flourishing metropolitan area with a population of approximately 775,000. This area offers many opportunities for work, service and relaxation for Gonzaga students.

Gonzaga's campus overlooks the Spokane River, where the Washington Centennial Trail extends 39 miles between northwest Spokane and Coeur d'Alene. Students enjoy biking, rollerblading, running and walking along the trail. Downtown Spokane is just a few blocks from the campus, providing easy access to shopping, dining and entertainment. The nearby 12,000-seat Spokane Veterans Memorial Arena, a multipurpose entertainment venue, hosts concerts, sporting events and special programs such as Gonzaga's undergraduate commencement ceremonies.

Spokane boasts many parks, including the 100-acre Riverfront Park in the heart of the city. In addition, there are 21 public golf courses within an hour's drive, ice- and roller-skating rinks, theaters and art galleries. A symphony orchestra, civic theater and professional athletic teams add to the cultural and entertainment opportunities of the urban core.

Nearby recreational areas are easily accessible to students. Seventy-six lakes and five ski areas provide swimming, water skiing and winter sports activities. Spokane has consistently been lauded for its quality of life.

Students: The Center of the University

Total enrollment each semester at Gonzaga is more than 7,300 students of whom 70 percent are undergraduates and 30 percent are in graduate programs, including the School of Law and five doctoral programs. Our student body represents every state and over 43 countries.

More than half of the undergraduate student body comes from homes at least 200 hundred miles from Spokane. The result is a diverse, welcoming campus community, where cultures and friendships are shared warmly.

The academic curriculum is supported by over 800 full-time and adjunct faculty. The ratio of students to faculty is 12-to-1.

Finance: An Important Part of Your Education

As you begin your academic career, it is important to remember that although tuition at independent or private universities is typically higher than at public universities, the ultimate value of a degree from Gonzaga University is well recognized by members of business and industry.

Gonzaga is committed to assisting students in financing their college education. Ninety-nine percent of our students receive financial aid. The Financial Aid Office welcomes your inquiries and is prepared to provide assistance in the development of your financial aid award, assuring you the best package possible.

The Campus: Your Home Away from Home

Gonzaga's campus has grown from one building that housed both students and Jesuit faculty in its early years to 104 buildings spread over 152 landscaped acres. The University site is along the north bank of the Spokane River and includes its own small lake and attractive, well-kept campus grounds. Some highlights of the campus include the following:

The Department of Housing and Residence Life provides living options for around 3,000 undergraduate students, including men's, women's or coeducational residence halls with capacities ranging from 40 to 620. Residence halls are staffed by Professional, Assistant Residence Directors, Resident Assistants, Student Ministers, Residence Hall Association Executives, Peer Mentors, and Social Justice Peer Educators who collectively provide a wide range of services as live in staff members. Full-time unmarried first- and second-year students who are under age 21, not living at home, must live in on-campus residence facilities. Upper-division students have access on a first come/first served basis to some apartment-style living units, and the University owns two apartment complexes and up to nine houses in the neighborhood depending upon the year. At this point in time the university does not provide

married or family housing in any on- or off-campus property and is happy to assist students in locating such.

John J. Hemmingson Center is over 167,000 square feet of contemporary space that supports fun, healthy living and an engaged community. It is a living and learning environment where students, faculty, staff, alumni and members of the larger community can interact with one another.

Dining options include:

- The COG, with two floors of diverse resident dining including six restaurant-style platforms;
- Starbucks; Qdoba;
- Marketplace convenience store offering handcrafted-gourmet sandwiches; and
- the Bulldog, a full-service restaurant.

A state-of-the-art rooftop hydroponic greenhouse grows organic produce that is served in resident dining. Additionally, the Hemmingson Center offers U.S. Bank, Next Gen Tech Bar, a grand ballroom, auditorium, meeting room and spaces for events, a reflection room, outdoor fire pit, and many places for students to meet and study.

Administrative offices within the building include:

- University Ministry
- Diversity, Inclusion, and Cultural Engagement (DICE) including Unity Multicultural Education Center (UMEC) and Lincoln LGBTQ+ Resource Center
- Center for Community Engagement (CCE)
- Student Involvement and Leadership including Payne Center for Leadership Development (PCLD), Center for Student Involvement (140+clubs and student governments), , Gonzaga Student Body Association (GSBA), and Transfer, Veteran, Returning Adult, and First Generation Services (TVRAS + FG)
- Center for Global Engagement (CGE) including Study Abroad and International Student and Scholar Services (ISSS)
- Auxiliary Enterprises
- Zag Dining
- ZAGCARD Services
- Gonzaga University Event Service Team (GUEST)

Gonzaga University Athletic Facilities

The Charlotte Y. Martin Centre is the home of Gonzaga volleyball. The gym, which is the birthplace of the Kennel, seats 2,000 fans. As a whole, the Martin Centre is 136,000 square feet and also houses the athletic department offices and Diedrick and Delong Sports Medicine Center. The athletic training facility is a wonder on its own, covering nearly 5,000 square feet and featuring two state-of-the-art rehabilitation whirlpools.

The Rudolf Fitness Center is a 38,000 square foot facility with cardiovascular and weight areas containing a full line of Olympic benches, dumbbells, Hammer Strength equipment, treadmills, elliptical machines, rowers, versaclimber, bikes, and steppers with 14 televisions. Also available are four racquetball courts, two aerobics rooms, a field house with three full basketball or volleyball courts, a (1/11 mile) rubberized running track, a six lane 25-yard swimming pool and a smoothie snack bar. The Rudolf Fitness Center also houses a majority of the physical education classes offered by the University and is open throughout the year for use by students, staff/faculty, and spouses.

The McCarthy Athletic Center is home to the Gonzaga men's and women's basketball teams as well as the Harry A. Green Indoor Rowing Facility. The facility, which features a 6,000-seat arena, is 144,000 square feet of screaming fans come basketball season and lives and breathes the legacy of past basketball greats, such as John Stockton.

Patterson Baseball Complex and Washington Trust Field became the home of Gonzaga baseball in 2007. The completion of the facility brought GU baseball back to the campus for the first time since 2003. The complex is named after benefactor and former Board of Trustees Chairman Mike Patterson, while Pete Stanton and Washington Trust Bank of Spokane were also major contributors.

Luger Field is home to men's and women's soccer programs. Phase I of the new facility was finished in fall 2008. Phase II of the facility was completed in 2015 with the addition of state-of-the-art lighting which allows our soccer teams to play their home games under the lights. The new facility provides not only a playing field, but a practice field for both the men's and women's teams as well as a press box and ticket booth. Phases III and IV will include the installation of permanent seating and locker rooms for the home and visiting teams.

The Stevens Center, Gonzaga University's indoor tennis and golf facility, opened in January 2014. This 72,000-square-foot facility includes six regulation tennis courts and a golf practice area for Gonzaga's varsity golf teams. Other prominent features include locker rooms, training rooms, team lounge, offices and balcony seating overlooking the tennis courts.

The Volkart Center for Athletic Achievement is a 51,240-square-foot facility built directly south of the Martin Centre, and helps student-athletes succeed in competition, in the classroom and in the community. The building houses the Rian G. Oliver Student Athlete Enrichment lab, The Karen Gaffney Champions room, The Steve Hertz Practice facility, Brown court, and the Hall of

Honor presented by the Wolff Family, along with multiple meeting spaces. The building provides Gonzaga student-athletes with some of the finest facilities and support services in the nation.

Campus Buildings

The Gonzaga University campus includes 104 buildings, the newest of which is the John and Joan Bollier Family Center for Integrated Science and Engineering. The Hemmingson University Center houses the Center for Global Engagement; the Mission and Ministry offices; the Center for Community Engagement; the Diversity, Inclusion, Community, and Equity (DICE) office; the Student Involvement and Leadership Center; student government offices; multiple meeting rooms and lounges; a US Bank branch; a ballroom; as well as multiple food venues. Since 2000, 14 other buildings have been constructed, including the bookstore and parking facility; the Corkery and Kennedy Apartments; Coughlin, Dillon, Goller, and Twohy Residence Halls; the Law School; the McCarthy Athletic Center; the Paccar Center for Engineering; the Patterson Baseball Complex; and the Stevens Center for Tennis and Golf. The Rudolf Fitness Center was added to the Martin Centre sports building, and the Tilford Center for Health Sciences, as well as Leadership Studies, was created from a purchased facility. The Magnuson Theater was renovated during this time frame.

The Foley Center library was opened in 1992, providing sophisticated on-line computer access to libraries across the United States. It also contains one of the finest rare book rooms in the country.

In addition to the library, Foley is now the home for the Writing Center, the Center for Teaching and Advising, the Office of Instructional Design and Delivery, the Center for Student Academic Success, including the Disability Access, and Academic Testing Center, and Information Technology Services (ITS).

Other buildings as well as historic ones grace the Gonzaga campus. The Jundt Art Center and Museum was completed in 1995. The Jepson Center for the School of Business was remodeled and expanded in 2004. The Rosauer School of Education building was completed in 1994. The historic Huetter Mansion was relocated to the University Campus and houses the Office of Campus Security and Public Safety, while the graceful 1902 Monaghan Mansion continues to house offices and practice rooms for the Music department. The Alumni Association along with the Division of University Advancement is now located in the Boone Avenue Retail Center (BARC).

The Myrtle Woldson Performing Arts Center, opened in 2019. Additionally, the Volkar Center for Athletic Achievement as well as the new the Della Strada Jesuit residence have recently been completed. The former Jesuit House has been renovated into a new home for the Humanities and contains an office suite for the Dean of the College of Arts and Sciences, as well as offices for the Honors Program, Women and Gender Studies, the Center for Public

Humanities, and the Center for Undergraduate Research and Creative Inquiry, as well as the Science in Action outreach program, English, and Religious Studies.

St. Aloysius Church, the Student Chapel, and the spires of St. Al's Church are landmarks of the Spokane area. The chapel, located in College Hall, offers students a place for solitude and reflection as well as daily Masses.

A Century of Educational Leadership

After 40 years of pioneer missionary efforts to bring Christian civilization and culture to the Pacific Northwest, the Rev. Joseph M. Cataldo, S.J., an Italian Jesuit missionary, initiated plans to build a mission school in Spokane Falls Territory. Out of the vision and courage of early Jesuits, Gonzaga College became a reality and admitted its first students in 1887, two years before Washington became a state.

The College became Gonzaga University with the opening of the School of Law in 1912. In 1916 the School of Philosophy of Letters for Jesuit Scholastics became part of the University. In 1921 the University opened the School of Business Administration, in 1928 the School of Education and in 1934 the School of Engineering . In 1975 the School of Continuing Education was recognized and named as the School of Professional Studies, later renamed as the School of Leadership Studies in 2018. The School of Nursing and Human Physiology was established in 2013 and was renamed the School of Health Sciences in 2023. Gonzaga is an independent, Roman Catholic and Jesuit university committed to ensuring our students an educational experience that fosters individual intellectual, moral, and spiritual development.

Accreditation: The Mark of Excellence

Gonzaga University is accredited by the Northwest Commission on Colleges and Universities (NWCCU), an institutional accrediting body recognized by the Secretary of the U.S. Department of Education. Gonzaga University holds specialized accreditations for specific degree programs through:

- The Council of the Section of Legal Education and Admissions to the Bar of the American Bar Association (ABA)
- The National Association of Schools of Music (NASM)
- The American Chemical Society (ACS)
- The Commission on English Language Program Accreditation (CEA)
- The Association to Advance Collegiate Schools of Business (AACSB)
- The Commission on Collegiate Nursing Education (CCNE)
- The Council on Accreditation of Nurse Anesthesia Educational Programs (COA)
- The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET)

- The Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET)
- The British Columbia Ministry of Advanced Education, Skills and Technology (consent) and the Degree Quality Assessment Board (DQAB)
- The Alberta Ministry of Advanced Education (approved), and the Campus Alberta Quality Council (CAQC)
- The Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- The Washington State Professional Educator Standards Board (PESB)
- The National Association of School Psychologists (NASP)

GU Coat of Arms: The Mark of Distinction

The Coat of Arms of Gonzaga University, assembled in 1914, is an adaptation of the coat of arms of the Loyola family: members of the Spanish nobility from whom the founder of the Society of Jesus descended. It combines symbols representing both the paternal and the maternal houses, Loyola and Onaz.

The Coat of Arms contains:

- **Hatchment Number 1** (dexter chief): Two gray wolves leaning on a black pot and chain, all on a white field. It represents the House of Loyola, as the founder of the Jesuit Order was Inez Loyola. The pride of the House was that they fed the poor, kept the wolf from the door.
- **Hatchment Number 2** (sinister base): The arms of the House of Gonzaga, a red cross sustaining an in-escutcheon, the lions of Florence and two black for the ecclesiastical dignity of their House. The four falcons in the corners of the escutcheon represented the hunting prowess of the family. Now the faculty of Gonzaga are first, Jesuits founded by Loyola; second, the patron of the University is St. Aloysius Gonzaga; third, the House of Onez was associated with Loyola; and last, the University is situated in Spokane, represented by the river, the sunburst, and the Indian symbols.
- **Hatchment Number 3** (sinister chief): The colors of Spain, seven red bars on a field of gold, given to the House of Onez by the King, because seven brothers of that House distinguished themselves in the service of Spain.
- **Hatchment Number 4** (dexter base): Sun burst over the Spokane Falls, a pine tree to the right and an Indian tepee to the left. The Spokane Indians were so called because they were in their interpretation, children of the sun. The colors are natural, the tepee being a russet, or dun color.



- **Eagle crest:** American bald eagle of the Republic, protecting the Institution.
- **IHS:** The name of Jesus, His cross, and the three nails of His crucifixion. The nails and lettering are black, surrounded by a halo for gold.
- **In-escutcheon:** Blue and White, a royal blue field on which the letter G stands for Gonzaga, the University colors are Royal Blue and Immaculate White.
- **AMDG scroll:** Stands for “Ad Majorem Dei Gloriam”, for God’s greater glory, the motto of the Society of Jesus as given to it by its founder, St. Ignatius Loyola.
- **1887:** Gonzaga University was founded in 1887 and was only a college until 1912.
- **Wreath:** Bays on the right, representing classic renown, Oak on the left signifying civic pride, both in natural colors.

The Coat of Arms is a historical logo to be used solely by the Office of the President.

Our Commitment to Non-Discrimination

Gonzaga University subscribes to the principles and laws of the federal government and Washington State pertaining to civil rights and equal opportunity. The university does not discriminate against any person on the basis of race, color, religion, national origin, sex, marital status, sexual orientation, gender identity, age, disability, protected veteran status, or any other non-merit factor in employment, educational program, or activities that it operates. All university policies, practices, and procedures are consistent with Gonzaga’s Catholic, Jesuit identity and Mission Statement.

As a church-related institution, in conformity with federal and state law, Gonzaga reserves the right to take religious faith into consideration where it is deemed appropriate. As a federal contractor, Gonzaga University maintains an Affirmative Action Plan.

Gonzaga University Strategic Planning Process

Vision Statement

Approved by the Board of Trustees on July 17, 2015

Gonzaga is a premier Liberal Arts based University recognized nationally for providing an exemplary Jesuit education that empowers its graduates to lead, shape, and serve their chosen fields and the communities to which they belong.

Institutional Priorities

Gonzaga University is a complex organization that encompasses multiple channels of accountability, functions in a shifting competitive environment, serves a variety of constituencies and pursues a wide array of goals. Additionally, the University is increasingly being asked to become more sophisticated in how it makes decisions, delivers educational content, supports students and approaches its strategic planning. Meeting these expectations currently involves the work of more than 1,300 full-time employees, involves in excess of 3.1 million square feet of facilities and operates with a gross annual operating budget surpassing a quarter of a billion dollars.

At the beginning of the current administration, the President set forth three institutional priorities to guide decision-making and resource allocation:

- Gonzaga University an *exemplar* of American Jesuit higher education.
- Academic and educational *excellence across the institution*.
- A commitment to *institutional viability and sustainability*.

Strategic Plan

The Vision, Institutional Priorities, and Strategic Objectives articulated above served as the foundation for the development of the Gonzaga University Strategic Plan. This Plan identifies four primary guideposts toward our vision, called “commitments” – an acknowledgment that we do our work in an active, relational context, possessed of mutual accountabilities.

Commitment 1: Foster Responsibility for Shared Mission

Commitment 2: Animate Academic Excellence Across the Institution

Commitment 3: Provide An Integrative Jesuit Educational Experience for Our Students

Commitment 4: Optimize Institutional Stewardship and Sustainability

Each commitment in turn contains strategic objectives that serve as declarations of continuous institutional improvement. The thirty-five (35) specifically identified goals provide a means of defining institutional success in achieving the objectives.

View a complete copy of the [University Strategic Plan](#), [Strategic Plan Update](#), and the [Annual Strategic Plan Progress Report](#).

Admission

Policy

Decisions on admission to any undergraduate school or college of the University are made after a careful review of an applicant's academic achievement, scholastic aptitude, and personal characteristics which may predict success at the University. High school or college grades, course rigor, optional test scores, essays, extra-curricular activities and character play an important role in the admission process. All applicants are reviewed according to these criteria without discrimination on the basis of race, age, color, creed, national or ethnic origins, marital or financial status, disability, gender, or sexual orientation.

Prerequisites

Applicants for regular admission are expected, prior to enrollment, to have graduated from an accredited high school in a college preparatory curriculum while showing evidence of ability to complete the University's requirements for graduation.

The following pattern of coursework is recommended, but not required, for admission to Gonzaga University:

English	four years;
Mathematics	three/four years;
History/social studies	three years;
Foreign language/ American Sign Language	two/three years of a single language;
Natural/physical laboratory science	three/four years

For first-year applicants seeking admission to nursing, Gonzaga recommends natural/physical laboratory science and math all four years of high school, including in the senior year.

As of fall 2020, Gonzaga does not require an SAT or ACT to be submitted as part of an application; students may apply with or without ACT or SAT scores and there is no penalty or preference for either. Candidates submitting SAT or ACT scores to the University are urged to take their tests no later than the first semester of their senior year in high school. Scores must be submitted through the testing agency or be posted on the high school transcript to be considered official. Please note that students who are homeschooled may have additional testing requirements. Please refer to the How to Apply for Admission section for First-Year students below for more information listed in item #6.

Review admission requirements at www.gonzaga.edu/admissionreqs.

An application for undergraduate admission will not be considered until all required documents are received by the Office of Admission.

How to Apply for Admission:

Application for First-Year Students:

1. Students applying to Gonzaga University must submit the Common Application. Applications can be accessed online at the Common Application website www.commonapp.org.
2. Students must complete all parts of the Common Application including the Gonzaga Questions.
3. Submit the non-refundable application fee. The application fee may be submitted via the Common Application website.
4. Forward an official high school transcript to the Office of Admission. The application may be completed after the student has finished six semesters (or nine trimesters) of work in a college preparatory program.
5. Optional: Have ACT or SAT scores forwarded to the Office of Admission if they do not already appear on the high school transcript.
6. Home-schooled students are a significant part of Gonzaga University's applicant pool. Students may choose home schooling for a variety of reasons and may implement a variety of styles. Therefore, home-school applications receive highly individualized attention. The Office of Admission requests the following information:
 - a. The Common Application
 - b. Any transcript(s) of academic work
 - c. ACT and/or SAT if the student has completed less than 30 semester or 45 quarter college credits by application deadline.
 - d. One letter of recommendation, by someone other than a parent, addressing academic accomplishments

- e. The Common Application School Report, which can be filled out by a parent/guardian
7. Gonzaga's Nursing Program accepts first-year applications only. Applicants interested in the Nursing Program must choose "Nursing" on their application as their Primary Academic Interest to be considered. Students not admitted into the Nursing Program through the application process will not be permitted to change their major to nursing. Applicants must apply by the Early Action deadline of November 15 and choose "Nursing" on their application to be considered. Nursing applications that are received after November 15 will be considered for the nursing waitlist.

Application for Transfer Students:

1. Submit the Transfer Application for Admission at www.gonzaga.edu/transfer.
2. Request one Academic Evaluation and/or a letter of recommendation from a college advisor or professor.
3. Request completion of the Gonzaga Transfer College Report from an official at your current or most recent institution and forward it to the Office of Admission.
4. Submit an official college transcript for each institution attended.
5. Submit a final high school transcript if you have not yet earned 30 or more transferrable semester credits (or 45 quarter credits) by the time of application. ACT and/or SAT scores are not required, but applicants with less than 30 transferable semester credits (or 45 quarter credits) may choose to submit them for consideration. Students who have been out of high school for four or more years or have not graduated from high school would be encouraged to complete a minimum of 30 transferable semester credits (or 45 quarter credits). For questions on exceptional circumstances, please contact the Office of Admission.
6. Submit the non-refundable application fee.

Application for International Students

Gonzaga welcomes applications from international students, who make up a valued part of the University's student body. Since 1969, Gonzaga has been authorized by the Federal government to issue both I-20s and DS-2019s so that international students can secure visas and enroll in our programs. To be considered for undergraduate admission, international applicants are required to submit the following:

1. A completed application:
 - a. First-year applicants must complete the Common Application at www.commonapp.org.
 - b. Transfer applicants must complete the Transfer Application at www.gonzaga.edu/transfer.
2. Transcripts:
 - a. First-year applicants must provide proof of academic preparation through the submission of official academic transcripts, demonstrating satisfactory achievement in the completion of a secondary education equivalent to that offered in the United States.
 - b. Transfer applicants must submit official transcripts from any post-secondary institutions attended. Please submit transcripts in both your native language and in English. If admitted, a professional course-by-course evaluation will be required.

3. School Report or College Report:
 - a. First-year applicants must provide a completed Common Application School Report (completed by the high school counselor).
 - b. Transfer applicants must provide a completed Transfer College Report (completed by a school official at your current or most recent institution).
4. A letter of recommendation:
 - a. First Year applicants please submit an Academic Evaluation and/or a letter of recommendation from an instructor, to be sent directly to Gonzaga University.
 - b. Transfer applicants please submit an Academic Evaluation and/or a letter of recommendation from a college advisor or professor, to be sent directly to Gonzaga University.
5. A copy of your current passport.
6. Proof of English language proficiency adequate for undergraduate study at Gonzaga, which may be demonstrated by any of the following:
 - a. Test Scores. Official test scores must be received directly from a testing agency or reported on the official high school transcript. Test scores must be dated within two years of the application
 1. A TOEFL score of at least 550 written or /80 iBT. "My Best Score" and "TOEFL Home Edition" accepted.
 2. An IELTS score of 6.5 or higher.
 3. An official ACT composite of 23 or higher.
 4. A SAT Evidence Based Reading and Writing score of 550 or higher.
 5. Duolingo score of 120 or higher.
 6. An iTEP Academic Plus score of 4.5 or higher.
 7. A PTE (Pearson Test of English) score of 56 or higher.
 8. A TOEIC score of 695 or higher.
 9. An IB English A (Higher or Standard) predicted score of 6+ or higher.
 10. GCSE/IGCSE/GCE O-Level in one of the following courses with a B or higher: English, English Language, English Literature or First Language English.
 - b. Successful completion of the course of study offered by Gonzaga University's ESL Program with faculty recommendation.
 - c. Completion of 2+ years of post-secondary coursework at an accredited U.S. institution of higher education with a B or better (3.0+ on a 4.0 scale) in a combination of English composition and/or speech classes.
 - d. Applicants from the following countries are exempt from providing proof of English proficiency: Australia, Belize, Botswana, Canada (except Quebec), Ghana, Ireland, Kenya, New Zealand, Nigeria, South Africa, Uganda, United Kingdom,

and any English-speaking Caribbean country (Antigua and Barbuda, Bahamas, Barbados, Grenada, Jamaica, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Trinidad and Tobago).

Application fee note: Gonzaga offers an application fee waiver for international students. To receive the waiver, please select the International Student Fee Waiver on the Common Application or on the Transfer Application.

Once admission has been granted and students pay their confirmation deposits, Gonzaga University requests international applicants to provide documentation of sufficient funds for academic and living costs while studying in the United States for at least the academic year (two consecutive full-time semesters) so that immigration documents can be issued.

When to Apply for Admission

All new students may apply for admission to either the fall or spring semesters. Please visit the Office of Admission Dates and Deadlines webpage for a comprehensive list of timelines and dates associated with an application for undergraduate admission to Gonzaga University.

Enrollment in a summer session does not imply admission for the regular academic year. Summer session students who desire regular admission to the University should submit an application to the Office of Admission.

All applicants seeking financial aid should also complete and submit the Free Application for Federal Student Aid (FAFSA). The FAFSA is available starting October 1 of the year prior to the year for which admission is sought, and families are encouraged to submit the FAFSA as soon as possible. The FAFSA priority deadline for first-year students is February 1 and for transfer students, March 1. This form can be accessed online at <https://studentaid.gov/h/apply-for-aid/fafsa>. Gonzaga's FAFSA code is 003778. Undocumented Washington state families are encouraged to complete the WASFA, which can be accessed at <https://wsac.wa.gov/>. Undocumented out-of-state families are encouraged to submit the Needs Analysis Form, found [here](#).

Credit Earned Elsewhere

Transfer of Credit

Applicants who have earned college credit at other post-secondary institutions must submit official college transcripts to the Office of Admission for transfer credit evaluation. Eligible institutions must be recognized by a U.S. regional accreditation organization as defined by the Council for Higher Education Accreditation (www.chea.org). College coursework must have a grade of at least 2.00 (on a 4.00-point scale), must represent college-level course work, and must be academic in nature for transfer credit eligibility at the University.

Transfer credit from a two-year institution (community or junior college) is limited to a maximum of 64 semester credits (96 quarter credits) that can be applied to a baccalaureate degree at Gonzaga. Students transferring with a maximum of 64 semester credits from a community or junior college are not permitted to further enroll at a two-year institution for additional transfer credit.

All students must complete a minimum of 30 semester credits at Gonzaga immediately preceding their graduation from the University. For further information on transfer credit policies, applicants should consult the Academic Policies and Degree Requirement sections of this catalog.

Advanced Placement/International Baccalaureate Credit

The University welcomes requests for special placement evaluation for incoming students who have taken the Advanced Placement (AP) Examinations of the College Board or International Baccalaureate Examinations. Examination results should be forwarded to the Office of Admission. Applicants may be granted credit, advanced standing, or a waiver of requirements depending on the field of study, the scores achieved, and the general regulations of the University. AP and IB Examination policies at Gonzaga University are available on the Office of Admission website, www.gonzaga.edu/creditbyexam.

Cambridge International A and AS Level Exams

Cambridge International A Level is a two-year course, and Cambridge International AS Level is a one-year course offering advanced curriculum to students preparing for colleges worldwide. The Cambridge International A and AS level curriculum is recognized as a rigorous college preparatory curriculum. Based on the results of Cambridge International Exams, students may receive 3 to 6 credits per advanced level exam. Review Gonzaga's policy for granting credit based on the advanced level exam or certificates online at www.gonzaga.edu/creditbyexam.

German Abitur (Zeugnis der Allgemeinen Hochschulreife)

The Abitur is certification that a student has successfully completed the German college-preparatory educational program and has scored passing grades on the Abitur examinations administered during the final year of secondary school. Based on the results of the Abitur exam, students may receive up to 6 semester credits per Leistungsfach subject area with a minimum grade of 10. Review Gonzaga's policy for granting credit based on the advanced level exam online at www.gonzaga.edu/creditbyexam.

Honors Program

Gonzaga University has long challenged exceptional students through its Honors Program. This interdisciplinary, competitive program seeks academically gifted and intellectually curious students who are willing to put their talents to work for the service of others.

The four-year Honors curriculum allows a student to choose any major or minor course of study. In addition to team-taught, interdisciplinary classes and close personal advising, a scholarship, an optional Honors Living Learning Community residence hall, flexible scheduling, unique study abroad opportunities and pride of place at graduation are provided.

Admission to the Honors Program is highly competitive: eighty to one hundred places are open each year. Candidates must complete a separate Honors application to be considered for admission. Acceptance is based on independent intellectual achievement and commitment, creativity, skill in effective expression, strength of curriculum, resilience through challenge, and the Honors portfolio on the Honors application form. If candidates submit test scores for their Gonzaga application for admission, they will also be considered in the Honors evaluation. If candidates don't submit test scores, strength of curriculum, GPA, and writing will be given more weight in the evaluation. Potential applicants are encouraged to visit the campus and to meet with the Honors Director or an Admission Counselor or to schedule a video or phone call to learn more about the Program.

Campus Visit

The Office of Undergraduate Admission offers an extensive visit program for those interested in attending Gonzaga. Pending availability, an individualized visit may include an overnight stay, class visit, faculty meeting, admission interview, information session, and campus tour. In addition to individualized visits, several Preview Days (larger open-house days), Saturday Visits, Nursing Fridays, Engineering Days, and virtual programs are offered throughout the year. To schedule a visit, contact the Visit Office at visit@gonzaga.edu or - www.gonzaga.edu/admission/visit. A notice of at least two weeks is recommended in order to arrange and plan for a successful visit.

Dual Enrollment

High school students who have not yet completed their graduation requirements may enroll (with certain restrictions and on a space-available basis) in a maximum of two courses per semester while still enrolled in high school. This program is reserved for juniors and seniors who present a minimum cumulative grade-point average of 3.50 (4.00 scale) and a letter of recommendation from their principal or counselor. A special tuition rate is available for all students taking Dual Enrollment courses. For more information on this program, students may visit the dual enrollment webpage or contact the Office of Undergraduate Admission.

Non-Degree Seeking

Students not seeking a undergraduate degree may enroll in courses at Gonzaga as a non-matriculating student. Further information can be found through the University Registrar's Office at <https://www.gonzaga.edu/academics/academic-resources/registrars-office/non-degree-seeking-student-registration>.

Financial Information

General Information

The University's cost of providing a Gonzaga education is not borne solely by student tuition and fees. The annual Jesuit Community gift, endowment income, and gifts of many types from individuals, firms, and foundations constitute some of the other revenue sources essential for a balanced budget.

However, revenue from student charges constitutes most of Gonzaga's income. Student charges (less verified financial aid) are payable in full in U.S. dollars on a per semester basis, no later than three weeks prior to the beginning of the term. Knowing that payment in full presents a burden for many parents and students, Gonzaga offers installment plans each semester which spread payments over four months.

4-Month Installment Payment Plan (per semester)

Gonzaga University has partnered with Transact Payments to provide a completely automated and paperless 4-month semester payment plan during the fall and spring semesters. For the optional summer semester, please visit: Summer Payment Arrangements.

Installment Payment Plan features:

- Interest free
- Real-time account balance information through Transact Payments for students and their authorized payers.
- The total semester cost, less verified financial aid (excluding work study and pending outside scholarships) can be set up in 4 equal monthly installments.
- Schedule optional automatic payments once you are enrolled (optional) in the semester payment plan.
- Payment plan enrollment is by semester and includes a \$50 non-refundable enrollment fee each term

Fall Semester 4 Month Plan (Enrollment Deadline August 6, 2024)

- Sign up for the Installment Payment Plan (online only).
- There is a **\$50 application fee**, which will be required in addition to your **first payment for August**.
- In **mid-July**, all registered students and their authorized payers will receive email notification that the fall semester Statement of Account and payment options are ready to view in Transact Payments.

- The fall semester option to enroll in the Installment Payment Plan for fall semester will be available once the billing statements are published in Transact
- **Four equal payments are due August 6th, September 10th, October 10th, and November 10th of 2024.**

Spring Semester 4 Month Plan (Enrollment Deadline January 2, 2025)

- Sign up for the Installment Payment Plan (online only).
- There is a **\$50 application fee**, which will be required in addition to your **first payment for January**.
- In **mid-December**, all registered students and their authorized payers will receive email notification that the spring semester Statement of Account and payment options are ready to view in Transact Payments.
- The spring option to enroll in the Installment Payment Plan for spring semester will be available once the billing statements are published in Transact
- Four equal payments are due January 2nd, February 10th, March 10th, and April 10th of 2025.

Additional information:

- Students accepted to the University after the installment plan deadline dates may still enroll within two weeks of their acceptance, making up any missed payments and will not be assessed the additional \$25 late enrollment fee.
- Students are not eligible to enroll in an installment plan if they owe for a previous term.
- The payment plan covers only one term, so you will need to re-enroll every term.
- Students can only be enrolled in one Payment Plan each semester.
- If you become admitted and enrolled after each semester's payment arrangement deadline, please contact Amber Connelly at 509-313-6391 or connelly@gonzaga.edu.
- **Note:** All charges are payable in U.S. funds. Student Accounts accepts checks for payment on account. Electronic payment is also available which includes e-Check at no charge to the student and credit card payment through American Express, MasterCard, Discover and VISA with a convenience fee. The service fee for domestic card payments will be 2.95% and 4.25% for international card payments. An international payment option is available through Flywire. Billing statements are available ONLINE only. For additional information, go to: www.gonzaga.edu/billing.

Instructions to Enroll in Semester Payment Plan

Student Instructions:

- Students log into Zagweb using your network username and password: <https://zagweb.gonzaga.edu>
- Locate the "Student Accounts" tile on the Main Menu and select "Transact Payments...".

- Click on “Payment Plans” on the Main Menu screen.
- Click on the “View Payment Plan Options” button and follow the instructions to complete enrollment.

Authorized Payment Instructions:

- Authorized Payers access the following website: <https://gonzaga.edu/authorizedpayers>
- Enter "**User Name**" and "**Password**" and click on "**Sign In**"
- Click on "**Payment Plans**" on the Main Menu screen.
- Click on the "**View Payment Plan Options**" button and follow the instructions to complete enrollment.

Third Party Sponsors

A student whose account will be paid by a corporate or foreign sponsor, a government agency, a religious institution, a scholarship foundation or trust account, requires written proof of sponsorship in the Student Accounts Office to settle their account. The student must provide the Student Accounts Office with a purchase order or written statement of intent to pay by the third party no later than the semester's billing deadline. If there are stipulations associated with the payment agreement, such as a minimum grade point average, then the student must either pay Gonzaga University directly or enroll in one of the payment options.

Confirmation Deposit

In order to reserve a place in the student body, each first-time student is required to pay a \$ 500.00 confirmation deposit. This will apply as a credit toward first semester tuition expenses. Confirmation deposits are non-refundable unless written notification of cancellation of enrollment is received by the Admission Office prior to its deadline dates.

Room Reservation/Damage Deposit

Students are expected to make housing reservations with the Housing office prior to May 1st for fall semester and prior to December 1st for spring semester. All new students must complete and sign a Residential Living Application/Agreement. Reservations for new students must be accompanied by a \$200 advance room deposit fee which is non-refundable after June 1st for fall semester and January 1st for spring semester. Effective during the 2024-2025 academic year, this room reservation deposit will apply as a credit toward first semester tuition expenses.

Room reservation deposits are non-refundable unless written notification of cancellation of room reservation is received by the Housing office prior to the deadline dates.

Withdrawals from the University

Students completely withdrawing from the University must obtain a Complete Withdrawal form from the Registrar's Office. Tuition adjustments are calculated in Student Accounts. Final adjustments are based on the effective date of the withdrawal and exclude non-refundable fees. Room and board are pro-rated throughout the semester. Laboratory and course fees are not refunded after the first full week of classes. Financial aid funds are refunded in accordance with federal, state, and University regulations.

The withdrawal refund schedule and refund schedule for dropped classes are available at <http://www.gonzaga.edu/studentaccounts> and in the Student Financial Services Office.

Miscellaneous

The University reserves the right to change any costs and/or provisions without notice. It further reserves the right to withhold student information, including diplomas, until a student's account has been paid in full. No student will be allowed to register for an ensuing semester if a balance is owed for a prior semester. A finance charge of 12% per annum pro rata (365 days) or a rebilling fee of 1% of the total amount due or \$2.00, whichever is greater, will be added to a student's account on any amount more than 30 days past due. A "No Payment/No Arrangement Fee" of 3% of the amount due will be charged to a student not meeting the established payment deadlines.

Financial Aid

Gonzaga University consistently is ranked among the best regional comprehensive colleges and universities in the West. In addition, Gonzaga is ranked extremely high in value among regional comprehensive universities. A primary reason for this recognition is the excellent quality of financial aid awards provided Gonzaga students. In addition to the University's significant institutional grant and scholarship program, Gonzaga participates in all federal and state financial aid programs. The Financial Aid Office provides numerous services to meet the needs of those who wish to obtain a Gonzaga degree.

Applying for Admission

Students are encouraged to apply for admission and financial aid concurrently in order to expedite each important process. However, aid applicants must be admitted to the University in order to receive a financial aid award.

Applying for Financial Aid

All applicants seeking financial aid should also complete and submit the Free Application for Federal Student Aid (FAFSA). We encourage families to submit the FAFSA as soon as possible after it becomes available. The FAFSA priority deadline for first-year students is February 1 and for transfer students, March 1. This form can be accessed online at <https://studentaid.gov/h/apply-for-aid/fafsa> . Gonzaga's FAFSA code is 003778.

Financial Aid Process

The FAFSA data is processed by the Federal processor, and a Student Aid Index (SAI) is calculated utilizing a formula mandated by the federal government. The results of this calculation are forwarded to the University, and utilized to determine each applicant's financial need and eligibility for specific types of financial assistance.

The Financial Aid Award Offer

Once financial need is established, the Financial Aid Office assembles the best possible financial aid award offer for each applicant. This award offer generally combines several types of aid from sources inside and outside the University. Rarely does total student aid come from a single source. A typical financial aid offer is developed from four sources: scholarships, grants, work-study, and long-term educational loans. The proportions of aid from each of these sources vary greatly, depending upon individual circumstances and available funding. Financial aid award

offers can vary from year to year, depending on changes in a student's financial need, grades, and date of filing. Students must reapply for financial aid each year by the priority date to ensure maximum eligibility. Institutional assistance covered by the Gonzaga Guarantee provides four years of Gonzaga based funds or scholarships provided the recipient maintains full-time, continuous, undergraduate enrollment and maintains good academic standing according to this University catalog.

Scholarship Aid

Gonzaga University offers scholarship assistance exceeding \$80 million on an annual basis. Eligibility for scholarships is based solely on academic merit or on a combination of merit and financial need.

Merit-Based Scholarships

By applying for admission to the University, all incoming freshmen are automatically considered for one of a series of merit-based institutional scholarships. Other merit-based scholarships require separate applications with varying deadlines. These can be found at <https://www.gonzaga.edu/undergraduate-admission/tuition-aid/scholarship-opportunities>.

Need-Based Scholarships

Students who have been admitted and who have filed the FAFSA are automatically considered for Gonzaga funding which incorporates academic achievement and financial need. These funds are renewable by maintaining a specified grade point average and successful completion of specified credit hours.

Grants

Grants are a form of financial aid for which eligibility is based upon financial need, not academic achievement. Grants do not have to be repaid.

Federal Pell Grants

This program provides grant assistance from the federal government to students determined to have a financial need. The amount of the grant is ascertained by the federal government, and it is prorated to reflect actual enrollment status. <https://studentaid.gov/understand-aid/types/grants/pell>

Federal Supplemental Educational Opportunity Grants (SEOG)

This is another form of federal grant assistance provided to students with substantial financial need. The amount of the grant varies according to funding and need criteria. <https://studentaid.gov/understand-aid/types/grants/fseog>

Federal TEACH Grant

This annual grant/loan can be awarded to students who meet the federal academic requirements, have filed a FAFSA, and agree to teach for four years as a highly-qualified teacher in a high-need field at a low-income school after completing their degree. If the four-year service requirement is not met, the funds must be repaid by the student as an unsubsidized loan. The grant/loan amount is based on enrollment status and is determined each year by the federal government. <https://studentaid.gov/understand-aid/types/grants/teach>

Students who meet the 3.25 GPA requirement can request the Federal TEACH Grant by completing the required Agreement to Serve and Counseling online at <https://studentaid.gov/app/launchTeach.action>. Students must also meet Gonzaga's School of Education requirement of having passed the EDTE 101 course.

Washington College Grant/College Bound Grant

These state-funded programs provide financial assistance to undergraduate students who are residents of the State of Washington and who demonstrate substantial financial need. <https://wsac.wa.gov/wcg> <https://wsac.wa.gov/college-bound>

University Grants

Gonzaga awards a significant number of grants from University funds. The amount of these grants varies according to an applicant's financial need and date of application. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/financial-aid/types-of-aid/grants#Institutional>

Loans

Student and parent loans are available from a number of sources to assist with the financing of a college education. Federal Loan eligibility is based upon FAFSA data, and require on-line counseling and a separate promissory note. Student loans must be repaid. While Gonzaga students have demonstrated responsible loan repayment, all students are encouraged to borrow only that amount which is necessary. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/financial-aid/types-of-aid/loans>

Federal Direct Subsidized Loan

This type of student loan is made available by the federal government to students with financial need. The amount you can borrow depends on your grade level and your financial need as determined by the FAFSA. The U.S. Department of Education pays the interest on this loan so long as you are enrolled at least half-time. Repayment begins six months after you graduate, withdraw, or drop below half-time enrollment. <https://studentaid.gov/understand-aid/types/loans/subsidized-unsubsidized>

Federal Direct Unsubsidized Loans

This type of loan is not based on financial need, but a FAFSA is still required to borrow from this loan program. The loan is identical to the Federal Direct Subsidized Loan, with the exception that the borrower is responsible for the interest which accrues while the student is enrolled and during any other deferment period. Repayment begins six months after graduation or withdrawal from a degree program. <https://studentaid.gov/understand-aid/types/loans/subsidized-unsubsidized>

Federal Nursing Loans

After a student has finished their first year of Gonzaga's Undergraduate Nursing Program, they may be able to borrow this type of loan. The loan opportunity is based on available funding and a student must have financial need as determined by the FAFSA to be considered. The Federal Nursing Loan carries a fixed 5% interest rate, with no accrual of interest while enrolled at least half-time. Students have a nine-month grace period after their enrollment drops below half-time before monthly payments are required. Minimum monthly payments of at least \$40 per month and interest begin after the nine-month grace period. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/financial-aid/types-of-aid/loans/federal-nursing-loan>

Federal Direct Plus Loans (PLUS)

The PLUS Loan is available to all credit-worthy parents of dependent undergraduate students. These loans are not based on financial need, although the student must submit a FAFSA form to receive these funds. The applicant for this loan must be the biological or adoptive parent (or in some cases, the stepparent) of a dependent undergraduate student. The maximum amount that can be borrowed is the Gonzaga "cost of attendance" minus other financial aid: <https://studentaid.gov/understand-aid/types/loans/plus/parent>

Other Loan Funds

Other loan funds have been established to assist students with expenses due to emergencies or other special circumstances. Eligibility is based on need and available funding. These funds include the Gonzaga Loan Program, the Bigelow Loan (funded by the Fred E. and Venora Bigelow Trust), the Leo J. Brockman Loan Fund, the Gonzaga loan, and the Carrie Welch Loan Fund. Inquiries should be directed to the Financial Aid Office. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/financial-aid/types-of-aid/loans>

Private or Alternative Loans

Private or Alternative Loans that are not need-based can also be obtained from private sources such as banks or credit unions. The maximum amount that can be borrowed in private or alternative educational loans is the Gonzaga “cost of attendance” minus other financial aid. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/financial-aid/types-of-aid/loans/private-alternative-loans>

Student Employment

Studies done regarding the relationship between academic achievement and working show that working part-time, especially on campus, results in students who are more invested in their education, better able to prioritize, and use campus resources for success. The Gonzaga Financial Aid Office supports these findings and encourages students to pursue part-time employment opportunities. <https://www.gonzaga.edu/admission/tuition-scholarships-aid/student-employment/student-employment-at-gu>

Federal Work Study (FWS) Program

This financial aid program, funded by the federal government and the University, provides a variety of on campus employment opportunities for students. Jobs range from assisting with research to general office work to community action projects. Students work an average of 10-12 hours per week during the semester. Eligibility for FWS is based on financial need as determined by the FAFSA.

State Work Study (SWS) Program

This financial aid program is funded by the State of Washington and private employers. It allows Washington State residents to work on campus or Spokane area employers during the academic year and summer sessions. These opportunities provide an excellent way for students

to gain valuable experience in their fields of study, network, and earn money to help pay for college. Eligibility for SWS is based on financial need as determined by the FAFSA.

Academic Progress

The Higher Education Amendments of 1992 require that a student receiving federal assistance must demonstrate satisfactory academic progress (SAP). In general, SAP is defined as “proceeding toward successful completion of degree within a specified period.” The policies and procedures governing SAP and its relationship to financial aid are available online at www.gonzaga.edu/SAP.

Tuition and Fees

Tuition Schedule (Academic Year 2024 - 2025)

Undergraduate:

Full-time (12-18 credits), per semester	\$27,190
Excess Credits, (19+ credits), per credit.....	\$1,815
Part-time (1-11 credits), per credit.....	\$1,815

Study Abroad Programs:

Contact the Study Abroad Office at (509) 313-3549

Special Programs:

Dual H.S. Enrollment, part-time (6 credit limit per semester), per course	\$600
Dual Enrollment, Administrative Fee, per semester	\$20

Auditors:

Of Record (recorded on transcript), per credit.....	\$850
No Record/No Credit, per credit.....	\$475

Notes:

- 1) Tuition schedules for graduate, postgraduate, doctoral, and law programs are contained in separate catalogs.
- 2) Physical Education activity courses may not be taken on an “audit” basis.

Special Fees: 2024-2025

I. Academic Fees:

Application Fee:	\$60
Summer Session Administrative Fee:	\$50
Degree Application Fee:	\$80
Late Add/Drop, Withdrawal Fee, per course:	\$50
Late Degree Application Fee:	\$100
Sustainability Fee, per semester:	\$10
International Student Fee:	\$55
Replacement of ZAGCARD:	\$30
Tuition Deposit: (Full refund prior to 6/1)	\$500
Housing Deposit: (Full refund prior to 6/1)	\$200
Fitness Center Fee:	
Full-time Undergraduate, per semester	\$125
Optional, for all other undergraduate categories, (per semester).....	\$150
Optional, entire summer	\$30
Course Challenge Fee:	
Undergraduate only, per credit	\$125
Transcript Fee: per official copy	\$6
Technology Fees:	
Full-time Student, per semester	\$315
Part-time Student, per semester	\$110
Summer.....	\$64
ESL, per session	\$157
Gonzaga in Florence, summer	\$64
Gonzaga in Florence, per semester	\$315
Mandatory Accident Insurance and Wellness Fee, per semester	\$100

Laboratory Fees:

Art	\$40-135
Biology.....	\$140
Chemistry	\$125-140
Computer Science Program Fee (per semester).....	\$230
Dance	\$15-20

Education:

Special Ed Assessment	\$55
Special Ed Precision Teaching.....	\$20
Teacher Ed Field Experience	\$135
Environmental Studies.....	\$30-140
Honors.....	\$50-140
Human Physiology.....	\$165
Integrated Media	\$50-\$110
Leadership Studies	\$50-90
Math	\$5-35
Modern Languages	\$20-\$110

Music:

Band/Drumline.....	\$85
Choirs	\$85
Class Lessons.....	\$55-\$110
Creative Music Ensemble.....	\$55
Field Experience	\$110
Guitar Ensemble.....	\$110
Instrumental Techniques	\$55
Jazz Workshop Combo	\$85
Keyboard Accompanying Lessons.....	\$415
Private Music Lessons (per credit hour)	\$415
String Chamber Orchestra	\$30

Symphony Orchestra.....	\$85
Wind/Jazz Ensemble	\$85
Nursing Program Fee (per major, per semester).....	\$400
Nursing:	
BSN Community Health Fee.....	\$ 55
BSN Program Delivery Fee	\$850
BSN Kaplan Rev/Exam Prep Materials	\$650
Physical Education (varies with course).....	\$20-430
Physics	\$30-80
Psychology	\$30-75
Public Health	\$100
SEAS Program Fee (per major, per semester)	\$350
Solidarity and Social Justice	\$100-900
Theatre.....	\$20-45

II. Student Affairs Fees:

Fees required of all first time, full-time undergraduate students:

First Year Experience Fee - Fall	\$210
First Year Experience Fee - Spring.....	\$25

Fees included in full-time tuition and non-refundable upon withdrawal from the University:

Student Affairs Fees, per semester.....	\$133
Career and Professional Development Fee, per semester	\$10
Publications, per semester	\$37
Facility Fee, all resident students, per semester included in room charge.....	\$55
Activity Fee, per semester, included in room charge	\$70
Mail Services Fee, per semester, included in full-time tuition	\$28

Room & Board: 2024-2025

These are per semester costs:

Room: (per semester)

Chardin/Cushing/DeSmet/Dooley – Small Room	\$3,375
Chardin/Cushing/DeSmet/Dooley – Large Room	\$3,610
CM/Coughlin/Dillon/Goller/Madonna/Twohy/Welch-Double	\$3,900
CM/Coughlin/Dillon/Goller/Madonna/Twohy/Welch-Single	\$4,450
All Other Residence Halls Double	\$3,595
All Other Residence Halls Single	\$3,975
All Residence Halls Premium Single	\$4,175
Dussault Double	\$3,990
Dussault Single	\$4,195
Burch/Corkery/Kennedy - Double Apartments	\$4,330
Burch/Corkery/Kennedy - Single Apartments	\$4,440
Kennedy Apartments - Premium Single.....	\$5,105
Sharp Apartments	\$3,845

Housing Rental Properties

Sinto Apartments – 1 Bedroom Apartment	\$3,135
Sinto Apartments – 2 Bedroom Apartment	\$3,795
Sinto Apartments – Townhouse	\$4,125
720 E. Sinto Apartment.....	\$3,795
727 E. Sharp House- (cost per bedroom)	\$3,300
1001 E. Boone House- (cost per bedroom)	\$3,300
1007 E. Boone House- (cost per bedroom)	\$3,300
502 E. Sinto House- (cost per bedroom)	\$3,300
511 E. Sinto- (cost per bedroom).....	\$3,300
511.5 E. Sinto (cost per bedroom)	\$3,300
514 E. Sinto- (cost per bedroom).....	\$1,925
514.5 E. Sinto- (cost per bedroom).....	\$3,300
518 E. Mission- (cost per bedroom)	\$3,300
518.5 E. Mission- (cost per bedroom)	\$3,300

Board:

Meal Plans (per semester)*

Food services to the University students are provided by Zag Dining by Sodexo. The University facilitates those arrangements by billing, collecting and remitting charges for those services. Each plan provides access to dining in two formats: community resident dining in the COG and

Bulldog Bucks to spend at both on and off campus locations. Students required to fulfill the residency requirement may choose from the following four meal plans:

Bulldog All Access \$3,890

Provides unrestricted entrance into the dining halls and \$650 in Bulldog Bucks per semester.

ZAG Meal Plan A \$3,890

Provides 14 meals (swipes) per week in the dining halls and \$900 in Bulldog Bucks per semester.

ZAG Meal Plan B \$3,740

Provides 14 meals (swipes) per week in the dining halls and \$750 in Bulldog Bucks per semester.

ZAG Meal Plan C \$3,590

Provides 14 meals (swipes) per week in the dining halls and \$600 in Bulldog Bucks per semester.

**No meals are served during the Christmas or Spring Break periods. All board charges are subject to further increase should rising food costs make it necessary.*

Additional meal plans are available for students who have fulfilled the residency requirement. Please visit Zag Dining for details.

Books and Supplies

- The cost of books and supplies will vary depending on your major and class schedule. Used, rental, or electronic books may be available at substantial savings.
- Books and supplies are not billed through the Student Accounts Office. Please visit the Zag Shop website or call (509) 313-6390 for information regarding costs and payment options for purchasing books.

Student Affairs

Center for Community Engagement (CCE)
Center for Cura Personalis
Center for Student Involvement (CSI)
Health & Counseling Services
Housing and Residence Life
Lincoln LGBTQ+ Resource Center
New Student and Family Programs
Office of Health Promotion
Office of Sustainability
Outdoor Programs - Gonzaga Indoor and Immersive Learning
Payne Center for Leadership Development
Resolution Center for Student Conduct and Conflict
Student Media
Transfer, Veterans, and Returning Adult Services and 1st Generation Initiatives
Unity Multicultural Education Center (UMEC)
Center for Student Academic Success

Student Affairs

College Hall, Suite 120

509-313-4100

mail to: studentaffairsoffice@gonzaga.edu

<http://www.gonzaga.edu/studentaffairs>

Student Affairs: Where Life + Learning Unite

Student Affairs is the division at Gonzaga University that is responsible for facilitating and supporting the outside-the-classroom learning, living, and thriving. The professionals who work in Student Affairs are committed to helping all Zags create lives of leadership and service for the common good. With our partners in Academic Affairs, we share the responsibility of helping our students learn. As trained professionals in our respective fields, our learning culture encourages a “guided practice,” allowing students to take the lead in their learning, pursuing ideas they are passionate about. We do so by providing our students with challenge and support, advising, counseling, teaching, coaching, guiding, and mentoring through frequent, consistent, meaningful, and fun interactions. This practice provides space for students to unite their formal education with the other aspects of their life. Our team in Student Affairs works hard every day to enhance learning, nurture student success, and foster a secure and inclusive community, helping Gonzaga University to develop into a premiere Jesuit University.

DIVISIONAL COMMITMENTS + COMMUNITIES OF PRACTICE

Our organizational structure is divided into three “communities of practice,” each led and supported by a dean, centered around three pillars: (1) Advancing Diversity, Equity & Inclusion; (2) Promoting Wellbeing & Flourishing; and (3) Fostering an Integrated Approach to Student Learning Development.

The professionals who work in Student Affairs are committed to helping all Zags create lives of leadership and service for the common good. The following programs, offices, and departments comprise the Division of Student Affairs:

Center for Community Engagement (CCE)

Hemmingson Center (2nd Floor & Lower Level)

509-313-6824

www.gonzaga.edu/cce

For nearly 30 years CCE has been putting Gonzaga’s mission into action through a wide spectrum of volunteer and community engaged learning projects. CCE’s programs offer you the opportunity to develop a personal commitment to service, social justice, and leadership. We take seriously the Jesuit mission of forming “people for and with others.” You can find our office in the Hemmingson Center. CCE serves as a resource center for students, faculty, alumni, and community partners.

Housed within the Center are the following programs and initiatives: Community-Engaged Learning Gonzaga University has offered community-engaged learning (also known as service-learning) courses for nearly 30 years. These classes are taught across the curriculum and offered by the various schools. Nearly 1200 students are actively engaged in community-engaged learning each year. This office coordinates service fairs each semester which invite non-profit agencies to campus to share opportunities and recruit student volunteers.

Gonzaga's Youth Programs & Initiatives The Center for Community Engagement pairs well-trained and passionate college students together with school-aged youth from the Spokane community. Starting in 1995 with the creation of Campus Kids at Stevens and Logan Elementary, CCE's Youth Programs & Initiatives have expanded by leaps and bounds. Today, we run 9 distinct youth programs at partner schools and the Gonzaga Family Haven.

Weekly Student Engagement Volunteering We have many ways for you to volunteer alongside other Gonzaga students addressing a variety of local community issues. You can serve meals with Campus Kitchens, form a community with adults with disabilities with GUSR, or serve weekly at a local non-profit with your peers through the Zag Volunteer Corps Semester of Service program.

Zag Volunteer Corps (ZVC) Program Zag Volunteer Corps connects members of the Gonzaga community with Spokane area nonprofits for educational and fun service experiences. Zags serve on the same day at the same time with the same group of students each week for the semester. Volunteer opportunities range from 1.5 to 2 hour long weekly commitments.

Wolff Fellowship Program Wolff Fellows co-design projects with local community-based organizations that build community capacity and strengthen partnerships between Gonzaga and the host agency. Projects are designed around CCE's six Arrupe Engagement Pathways: Advocacy & Awareness, Community-Engaged Learning & Research, Direct Service, Faith &

Justice, Philanthropy, Policy & Politics, and/or Social Innovation. Through their unique projects, Wolff Fellows explore the connection between their disciplinary/career interests and public service, learn about community needs and assets, and partner with community organizations to build community capacity.

Advocacy & Immersion Programs CCE's provides opportunities for students to engage in issue advocacy through on-campus events and immersion experiences which explore relevant social justice issues impacting communities visited. Programs include Ignatian Advocacy and our winter break immersion, Justice in January, a week-long immersion experience where students explore the realities of immigration and border issues along the U.S./Mexico border and enter into dialogue with individuals impacted by immigration, community leaders, non-profits and government agencies.

Center for Cura Personalis (CCP)

Crosby Center 216

509-313-2227

ccp@gonzaga.edu

www.gonzaga.edu/ccp

The Center for Cura Personalis (CCP) exists to empower students to be their best selves. Cura Personalis translates to "care for the whole person" and our case managers are here to meet one-on-one with students, support them in dealing with life's challenges and help connect them to useful offices and resources both on and off-campus. Case managers at Gonzaga operate in a non-clinical capacity which means they do not provide counseling or therapy to students, though they will quickly outreach to students who are struggling and connect students to resources for additional support. Case managers aim to build self-advocacy skills and promote personal growth through individualized meetings in a comfortable, private setting. CCP offers various support for students struggling with basic needs. If you or a fellow student are struggling, but not sure where to start, CCP is a wonderful place to connect. Learn more by visiting gonzaga.edu/CCP or calling us at (509) 313-2227.

Center for Student Involvement (CSI)

Hemmingson Center, Suite 304 (3rd Floor)

509-313-6123

getinvolved@gonzaga.edu

www.gonzaga.edu/csi

The Center for Student Involvement is home to:

- The Gonzaga Student Body Association (GSBA)
- Over 120 Student Clubs and Organizations
- SpikeNites

At Gonzaga, we know students involved outside the classroom are more likely to be successful in college. They express a sense of belonging, enjoy their college experience, and persist and

graduate. The Center for Student Involvement (CSI) provides support to students who provide opportunities for other students to get involved (GSBA and Clubs) and provide many involvement opportunities of our own (SpikeNites).

The Gonzaga Student Body Association (GSBA) is committed to helping students. Through programs, sponsorships, events, and other academic and social activities, GSBA strives to meet the student's needs. GSBA partners with student clubs and organizations to offer an array of events, from weekly Den After Dark artists, to guest speakers and lectures, and even big-name concerts like Quinn XCII and Cordae. GSBA prides itself on a strong relationship with the faculty and administration which helps students voice their concerns and suggestions. Need more information, a GSBA form, curious about GSBA funding or painting the wall? Visit the GSBA website at www.gonzaga.edu/gsba.

Gonzaga currently has over 120 active and recognized student clubs that cover a wide range of interests. GSBA and the office of Student Involvement and Leadership work together to provide support and services for all student clubs and their members.

Visit the Zagtivities website to view all the clubs and organizations that are available, and to learn how to sign up! If you have questions about guidelines, policies, processes and/or resources for Gonzaga University Student Groups, search for Club Policies on myGU. For more information visit our website at www.gonzaga.edu/getinvolved

SpikeNites is the late-night programming series on campus. Every Friday and Saturday from 8pm-10pm, SpikeNites features events like free movies, video game tournaments, comedians, bingo, and special events. Learn more about SpikeNites on Zagtivities.

Health & Counseling Services

704 East Sharp Ave.

509-313-4052

studenthealth@gonzaga.edu

www.gonzaga.edu/hcs

Gonzaga University Health and Counseling Services is here to support the physical and mental healthcare needs of students right on campus. Our expert staff are focused on the wellbeing of students and provide quality care just steps away from residence halls and classrooms. Health and Counseling Services delivers services in an integrated clinic setting. Providers, nurses, and other healthcare staff help diagnose and treat illnesses and injuries. Our psychiatric providers and counselors afford services that are accessible, confidential, compassionate, and inclusive for everyday mental health concerns, medication management, and crises impacting the student experience. We strive to offer holistic, comprehensive healthcare in partnership with students. We keep students moving toward their educational goals and maintain our focus on the wellbeing of the whole person. Please see our Health and Counseling Services website for further information.

Housing and Residence Life

Crosby Center 201

509-313-4103

housing@gonzaga.edu

www.gonzaga.edu/housing

www.gonzaga.starrezhousing.com/StarRezPortalX

The University operates 22 traditional residential communities, largely devoted to first and second-year students. These on-campus options offer you a variety of housing experiences as you complete your residence requirement. Most students in their third and fourth year live off campus in the surrounding neighborhood. A couple hundred beds usually exist for students wishing to remain on campus after the residence requirement, yet the demand significantly exceeds supply. The approximate student population in housing is 3,000 students, inclusive of some off-campus spaces.

A Faculty in Residence program exists which allows for a few opportunities for faculty to live in facilities with residents and contribute to the community.

Residential housing and dining options are open throughout the academic year except winter break. During winter break there may be limited service provided. Opening and closing dates are published and disseminated by various means, including the Housing and Residence Life website, departmental publications, and residential meetings. As the university may observe and publish various dates of openings and closings of numerous offices, it is important to note only those dates communicated by the Housing and Residence Life office pertain to their operation. You should rely on these dates when making travel and lodging arrangements. The university will not be held responsible for expenses incurred by referencing conflicting dates referenced by other offices or departments.

Living in any residential setting (on or off campus) may present risk to personal property. As such, the University does not assume responsibility for the loss or damage of personal property. You are encouraged to obtain "Renter's Insurance." Additionally, a comprehensive list of residential regulations and expectations is published separately in the student handbook.

Residence Policies (overview)

The University requires all full-time first- and second-year students who are unmarried and under the age of 21 to reside on campus in university-managed residential facilities. Likewise, students are contractually obligated to the University for the Room and Board Fees as outlined in the "terms and conditions" portion of the Residential Living Application/Agreement. Campus dining services are operated by Zag Dining by Sodexo. For more information about meal plans and other services provided, you may visit Zag Dining's website at <http://zagdining.sodexomyway.com> or call the Zag Dining office at (509) 313-6906.

To be eligible for university housing, you must be at least 17 years and 3 months of age prior to the first day of class. Students younger than this must reside off-campus with their parent(s) or legally recognized guardian who must be over the age of 21 (typically an immediate family member). Exceptions to this policy or special requests, including those of students who are

under 21 and unmarried but want to continue living with parent(s) or immediate family members, should be submitted on ZagLiving through a Housing Exemption Form, which will be reviewed by the Associate Director for Housing Operations. Students who reach the required age for residency after the first day of class may request a housing assignment during term. Accommodation of these requests will be honored as appropriate vacancies exist. Note that this requirement refers to the actual time a student has attended Gonzaga University and not to their academic standing.

Residential Living Application/Agreement

All students who are required to live in University Housing or who wish to continue in housing after their first and second year must complete and sign a Residential Living Application/Agreement. This document serves several purposes: it serves as the room and board contract between the University and the student; it outlines some of the University's housing policies; it refers students to where they may obtain the rest of the policies regarding on-campus living and expected behaviors, and it provides information on room and damage deposits.

First-year students should note that acceptance of the Residential Living Application/Agreement does not constitute confirmation to the University as a matriculating student. Accepted students, however, are encouraged to apply for housing as early as possible before their expected term (fall or spring) of attendance. If you withdraw from the University during the semester, you will be refunded room and board fees on a prorated basis.

Room Reservations

It is highly recommended that students apply for housing once the application window opens for the semester they intend to occupy an assignment. The application timeline will be posted on the Housing and Residence Life website. Completion of the Residential Living Application/Agreement found online provides the Office of Housing and Residence Life with the information they need to facilitate your being a member of the residential community at Gonzaga University. With the completed application, you must submit a \$200 housing deposit, which is automatically converted to a "damage deposit" upon check-in to your assignment and will be used to defray any damages up to that amount that may have occurred while you are in residence. Any remaining balance of the \$200 will be refunded when a student no longer lives on campus after all applicable fees and charges have been processed.

Housing and Residence Life processes room assignments. As an incoming student, you will have the opportunity to select the space you want to live in based on application completed by the due date and vacancies during your selection time. Students who do not select by the deadline will be assigned a space based on vacancy and the profile question responses. Living-Learning Community housing options are also available each year and published on the Housing and Residence Life website. Living Learning Communities require a supplemental application. Additional information on each Living Learning Community can be found on the website. No guarantees can be made to first-year students regarding building, roommate, or Living Learning Community preferences, but reasonable attempts will be made to honor

requests. Returning residential students can participate in a sign-up process during the spring semester which allows selection of specific rooms for the following fall semester.

Sodexo Zag Dining

All students who reside in the residence halls are required to eat on campus under a board plan. Sodexo Food Service provides a full-service food program to the University under the direction of the Executive Vice President.

Sodexo Food Service assists students with many health needs, including special diets when prescribed and approved in writing by a medical doctor.

The food service offers a "flex-dollar" option (Bulldog Bucks) to enhance the student's board plan. Students may use this allotment to purchase meals and/or snacks at any on-campus Sodexo food service location. Meal Plan changes can usually be made during the first week of each semester.

Lincoln LGBTQ+ Resource Center

Hemmingson Center 213

509-313-5760

lgbtq@gonzaga.edu

www.gonzaga.edu/lgbtq

Guided by the University mission to honor the dignity of the human person, the Lincoln LGBTQ+ Resource Center (LLRC) provides a safe and affirming space for people of all sexual orientations, gender identities, and gender expressions. Through social justice programming – including speakers, artists, films, Out to Lunch with Allies, Lavender Mass, and Lavender Graduation – all Gonzaga members are welcome to participate and build community. The Center also offers Sexuality and Gender Equity (SAGE) Certification for students, staff, and faculty to expand and deepen LGBTQ+ cultural fluency. The LLRC uses an intersectional lens to work closely with the Unity Multicultural Education Center (UMEC) and other campus partners to support students from historically underrepresented and traditionally marginalized groups.

New Student and Family Programs

Crosby Center 110

509-313-5501

nsfp@gonzaga.edu

www.gonzaga.edu/nsfp

New Student & Family Programs (NSFP) is dedicated to welcoming all new students and their families into the GU community through programs such as New Student Orientation, Parent & Family Orientation, and Fall Family Weekend. We support student learning and growth through programs that support transition and engage both students and families as active partners in student success at Gonzaga University.

NSFP develops and facilitates belonging and transitional programs for students beginning with New Student Orientation in the summer, followed by Welcome Weekend in August and ongoing programming through our How to Zag series in the Fall. These programs provide new students a holistic introduction to the university, connections to students with faculty, staff, and current students and support to their development and success during their first year.

NSFP serves as a hub for information, programs and services that inform and educate families about valuable resources, critical issues, and topics relevant to student success. We design and sponsor programs that promote family involvement in the life of the university and create opportunities for participation in their student's experience.

Office of Health Promotion

Crosby Center 206

509-313-5399

ohp@gonzaga.edu

www.gonzaga.edu/ohp

The Office of Health Promotion (OHP) fosters student well-being through proactive, non-judgmental, and inclusive public health principles and practices. Our goal is that all students will cultivate behaviors while at GU that contribute to sustainable, life-long well-being. The professional and student staff in this department lead initiatives, create programs, deliver trainings, and identify services and spaces that promote positive, holistic, equitable well-being and reduce high-risk behaviors. Contact us if you are interested in consultation for an event, project, or idea you have.

Collegiate Recovery Community - OUR House, Gonzaga's Colligate Recovery Community, is a community of students connecting through similar experiences and efforts to stop or reduce their use of substances or other potentially harmful behaviors. We welcome students exploring both sobriety and reduced use. This mission is supported by programmatic efforts for recovery, alternatives to alcohol and drug use, strategies, and resources for maintaining sobriety and a community of belonging promoting recovery, holistic well-being, and academic success.

Office of Sustainability

521 E Sharp Avenue

509-313-5571

Sustainability@gonzaga.edu

www.gonzaga.edu/sustainability

The Office of Sustainability (OOS) supports Gonzaga's commitment to care for our common home through coordinating our efforts to become carbon neutral by 2050, implementing our Climate Action Plan, responding to the Laudato Si' Action Platform, and fostering a culture of sustainability at Gonzaga University for students and employees.

The OOS coordinates initiatives on campus that support our employees and students in becoming sustainability citizens and leaders:

1. The Campus Garden serves as a space for students to learn about gardening and food production. In the fall of 2021, the Garden produced over 400 pounds of produce that was given away to over 400 members of the community.
2. The Commute Trip Reduction Program educates employees about car-free commutes through bicycling, walking, carpooling, vanpooling, and taking the bus. The OOS supports the Wheelshare program offered by the City of Spokane (Lime scooters) and helps coordinate access to bicycle lockers on campus. Additionally, complimentary bus passes are provided to all employees and students.
3. The OOS educates the campus community on consumption issues including waste reduction and energy conservation. The OOS helps support and coordinate national and local competitions such as the Campus Race to Zero Waste and Lights Out Gonzaga, each of which engages students and employees in ways that they can reduce their impact on campus and in their homes.
4. Sustainability Leadership Programming through the Student Sustainability Leadership Program (SSLP), Employee Sustainability Ambassador Program (ESA), and the Resiliency Academy (RA) impacts over 50 employees, students, and community members each spring through intentional programming and project-based work around sustainability topics and issues faced by our community.

Outdoor Programs - Gonzaga Outdoors & Immersive Outdoor Learning

202 E. Sharp Ave.

509-313- 4189

outdoors@zagmail.gonzaga.edu

<https://gonzaga.edu/outdoors>

www.gonzaga.edu/student-life/student-affairs/our-departments-and-programs/immersive-outdoor-learning

At Gonzaga Outdoors we believe that outdoor experiences have the power to help us build beautiful communities, learn about ourselves and others, support physical, mental, and spiritual health, and bring play, laughter, and joy into our lives. We hope to ensure that every Gonzaga student has the opportunity to benefit from outdoor experiences. We do this by providing inexpensive gear rentals and repairs, semester and day bike rentals, subsidized outdoor adventures, and educational events on and off campus. GU Outdoors offers hiking, biking, snowshoeing, skiing/snowboarding, cross-country skiing, backpacking, kayaking, fishing, rock climbing, and more!

Some of our biggest and most popular events include Adventure Week, Gonzaga Out of Bounds (GOOB), and Spring Break trips.

- Adventure Week takes place each semester and provides opportunities to get involved on campus and in the local community, as an introduction to our program and the outdoors.
- GOOB is an extended orientation program where 75 first year students come together for 5 days before move-in. GOOB includes three full days of activities: hiking, biking, and rafting.
- Spring Break: Each year GU Outdoors sends out Spring Break trips for students to adventure in places like Moab, UT, Banff, CAN, Olympic National Park, WA, Methow Valley, WA, or Mount Baker, WA.

Some ways to get involved include participating in GU Outdoors Trips, applying to be a Student Trip Leader, or working in our office working with logistics, gear, bikes, food, and more! At Gonzaga Outdoors and we believe that professionalism and fun go hand in hand. Our office and programs provide space for professional and personal growth and development as well as space to come ask questions about where to go adventure, relax, or study for their next big exam.

Gonzaga University's Immersive Outdoor Learning program offers experiential learning opportunities that extend beyond textbooks and lectures, immersing students in the natural world and challenging them to engage with complex questions that affect our environment and communities. Imagine students learning about local geology while rock-climbing, discussing the cultural significance of salmon populations while kayaking on the Spokane River, or studying human physiology while snowshoeing in the Selkirk Mountains. We believe education is not confined to the walls of a traditional classroom.

Located in the Inland Northwest, our university provides a premier setting for outdoor education. Our students have the chance to explore and learn in natural environments while developing self-confidence and deeper understanding of our interconnected, dynamic world. Faculty, staff, and students partner to transform outdoor spaces into immersive classrooms. A range of course offerings engage students with diverse topics such as: environmental justice, sustainability, indigenous perspectives, and more. We welcome students of every background and strive for inclusive environments that foster meaningful connection and dialogue. Participation in field-based excursions empowers students with personal responsibility for interactive learning and creates better informed, more engaged citizens. These experiences range in duration from experiential half-day labs to multi-week expeditions and are taught across a variety of disciplines.

We offer courses that include Mountain Science; Human Ecology; Environmental Engineering; Politics of Space & Place; Nature Writing; Parks, Forest, & Wilderness; Earth Systems; Outdoor Leadership; and Gonzaga-in-the-Wilderness. Uniquely tailored to promote experiential learning, each course encourages students to reflect on feelings, thoughts, and values as part of their learning curriculum.

Payne Center for Leadership Development

Hemmingson Center 313

509-313- 6673

pcld@gonzaga.edu

www.gonzaga.edu/pcld

The Payne Center for Leadership Development engages and supports all students seeking to develop their leadership potential and inspire positive change on campus and in their local and global communities. Our programs, services and resources offer students a deeper understanding of leadership in the Jesuit context of knowing self, building community, and impacting our world. We are also home to the Experiential Leadership Institute, a year-long leadership program for sophomore students, and Learns to Lead, a Living Learning Community, which empowers residents to develop their leadership skills and abilities.

Gonzaga's Community of Leaders (COL) is comprised of over 200 student leaders who facilitate, manage, and impact positive change for over 100 student clubs and organizations. The Payne Center helps students make meaning from their leadership experience and transform that learning into valuable lifelong leadership skills.

The Payne Center for Leadership Development offers a variety of services including:

- Leadership Trainings
- Leadership Workshops and Consulting
- Access to personal leadership inventories
- Guest speakers and professionals in the field
- Library of Leadership Resources

Resolution Center for Student Conduct and Conflict

Crosby Center 202

509-313-4009

resolutioncenter@gonzaga.edu

www.gonzaga.edu/resolutioncenter

Resolution Center for Student Conduct and Conflict

The Resolution Center for Student Conduct and Conflict is responsible for reconciling issues of student misconduct. Our processes provide transformative opportunities as we guide students to engage in ethical discernment, develop enhanced decision-making skills, and learn to accept ownership for actions. The Student Code of Conduct contains the University's standards of conduct and the accountability processes that address allegations of misconduct.

Gonzaga University's expectations for conduct go beyond what is minimally required for maintaining public order, both on and off-campus; and our student conduct processes are educational in nature as we actively seek to create an environment conducive to living and learning together. Our processes are not civil or criminal proceedings and our standard for determining a finding of misconduct is based upon what is "more likely

than not” to have occurred.

By attending Gonzaga University, you agree to abide by university standards of conduct, expectations, and policies. All students should be familiar with the Student Code of Conduct which is published at: www.gonzaga.edu/studentcodeofconduct.

Conflict Resolution Services facilitated by the Resolution Center empower Gonzaga University students to gain positive interpersonal skills and explore solutions in a low-level, inclusive environment.

Student Media

College Hall, Office 433
509-313-6875 or 509-313-5865
www.gonzaga.edu/studentmedia

Student Media provides a co-curricular experience for students who are interested in writing, editing, graphic design, videography, photography, and business. Go to our webpage under Student Affairs Departments and Programs to find out how to get involved or stop by our office. We offer paid positions in writing, graphic design, photography, advertising sales and editorial positions in these publications:

- The Gonzaga Bulletin Newspaper
- Charter Journal of Scholarship and Opinion
- Our Voices Journal of Diversity, Equity, and Inclusion
- Reflection Journal of Poetry, Prose, Visual Art, and Literature
- Spires Yearbook

Transfer, Veterans, Returning Adult Services + First Generation Initiatives (TVRAS+FG)

Hemmingson Center 203
509-313-5345
tvras@gonzaga.edu
www.gonzaga.edu/tvras

This office serves as the central point of information and provides opportunity and resources to address any questions or concerns you may have about being a transfer, Veteran, returning adult, or first generation student at Gonzaga University.

These student populations bring special gifts and face unique challenges when attending college and Gonzaga University is committed to supporting a successful transition to college and connecting services supporting the educational journey and build community through programming for this population of students. Gonzaga values the diverse skills, talent, and knowledge that this population of students brings to the University.

Unity Multicultural Education Center (UMEC)

Hemmingson Center 215
509-313-5836

umec@gonzaga.edu
www.gonzaga.edu/UMEC

UMEC provides experiential learning opportunities for all students in their identity development, cultural fluency, and connection to social justice. UMEC is organized around three pillars: (1) mentoring, (2) social justice programming, and (3) intercultural development. Many students first hear about UMEC through BRIDGE, which begins with a Pre-Orientation Social Justice and Leadership Institute and continues as a first-year peer mentoring program for incoming students with underrepresented identities. UMEC also offers social justice programs that feature speakers, films, art and activism workshops, and Diversity Monologues. UMEC's third pillar on intercultural development encourages students to go even deeper through Intergroup Dialogue courses, Pre-Orientation sessions, and Social Justice Peer Education. UMEC uses an intersectional lens to work closely with the Lincoln LGBTQ+ Resource Center and other campus partners to support students from historically underrepresented and traditionally marginalized groups. UMEC works closely with the Unity Alliance of Cultural Clubs and employs approximately 35 student leaders.

Center for Student Academic Success

www.gonzaga.edu/csas

The Center for Student Academic Success (CSAS) is an all-inclusive academic support center designed, through programs and retention initiatives, to empower Gonzaga students to be active and independent learners in pursuit of their academic success. The Center includes three integrated areas:

Academic Advising and Assistance

Professional advisors in AAA (“Triple-A”) provide developmental academic advising across all undergraduate curricula at Gonzaga. They assist students on a variety of topics, including academic planning, policy clarifications, crisis management, and transitional advising for students between majors. AAA is responsible for academic probation and dismissal, incoming first year registration, as well as individual assistance for students and faculty on academic issues. In partnership with the Center for Cura Personalis, AAA coordinates a campus wide early alert and referral system called REFER. For more information please visit www.gonzaga.edu/aaa.

Learning Strategies

Students seeking strategies, tools and resources to enhance academic success can sign up for a variety of one-on-one, group tutoring and academic coaching sessions. Trained peer-tutors are available to work with students on developing effective academic skills that help get the most out of your courses. A few techniques include, subject specific tutoring, individualized learning plans, creating accountability, developing metacognitive skills and exploring opportunities to improve academic success and increase resiliency. For more information please visit www.gonzaga.edu/learningstrategies.

Disability Access

Disability Access provides access services to Gonzaga University's programs, services, activities and facilities for qualified students with disabilities in compliance with the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973 and Washington State laws. Disability Access serves students with permanent or temporary disabilities. Disability Access may arrange or provide appropriate and reasonable accommodations for students with disabilities. Students should contact Disability Access to inquire about the procedure for requesting accommodations. The University recommends the student contact Disability Access at least four weeks prior to the semester for which they are requesting services (please see our website for specific deadlines). However, Disability Access continuously evaluates student documentation and requests for accommodation throughout the school year.

If at any time during the process of application, admission, and enrollment, individuals feel that they have been discriminated against because of disability, they are encouraged to notify Disability Access. Incidents which have occurred more than 120 days prior to making the complaint may or may not be given consideration. To obtain copies of GU's Informal Complaint Process for Reasonable Accommodation or the Formal Grievance Procedure, please contact the Disability Access office.

Disability Access is located in Foley Center Library, 2nd floor, Room 209 and is at extension 4134. Visit www.gonzaga.edu/disabilityaccess.

Student Services

University Ministry

University Ministry supports the spiritual development of all members of the Gonzaga community, regardless of religious affiliation and tradition. University Ministry provides opportunities and resources for spiritual growth and fellowship through retreats, liturgies, music ministry, small groups, spiritual direction, residence hall programs and more. These activities invite participants into a deeper understanding of Gonzaga's Jesuit and Catholic identity as well as a profound respect for other religious and spiritual traditions.

Retreats

Retreats provide an opportunity for going deeper, both as individuals and as a community. We offer an extensive retreat program throughout the academic year. The Escape Retreat (for First Year Students) is offered during the fall and spring semesters. We offer an opportunity for Sophomore students to retreat together in the fall and spring as well. Search, Gonzaga's longest-running retreat program, targeted at Juniors is held four times a year at the Bozarth Mansion and Retreat Center, an historic estate in north Spokane. For Senior students we will be offering a 5-day Ignatian Retreat during the winter prior to the start of the spring semester.

Christian Life Community (CLC)/Life Groups

These are intentional small groups that meet weekly to reflect, share life, pray, laugh and grow. Each year, roughly 500 students gather in these small groups to deepen their relationship with God, form lasting relationships with others, and walk through the valleys and peaks of college life together. CLC/Life Groups also gather regularly for large-group activities, social events, and service projects.

Mass and Sacraments

As a Catholic university, we hold Masses on campus to unite us as a faith community. Two public liturgies are available each day in the Gonzaga community. People of all religious paths are welcome to join us in prayer and worship. In addition, we help students connect with other local churches and places of worship.

Not only are students invited to come to Mass, but they are also invited to take on leadership positions, such as Eucharistic Minister, Lector, Server, or Sacristan. Mission and Ministry also offers students the Sacrament of Reconciliation through appointment or before Sunday evening Mass.

If you have questions about other University Ministry events and programs, please contact the office at (509) 313-4242 or umin@gonzaga.edu. University Ministry is located on the main floor of the Hemmingson Center (Suite 104) and online at <https://www.gonzaga.edu/about/our-mission-jesuit-values/university-ministry>.

Veterans

Gonzaga University's academic programs of study are approved by the Washington State Higher Education Coordinating Board's State Approving Agency (HECB/SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10 USC.

For graduate students enrolled in academic programs offering courses in non-standard terms, the number of credits required to achieve a time status of "full time" shall be proportional to the number of weeks in that non-standard term divided by sixteen (e.g., 8 divided by 16, times 6 credits equals a full-time status of three (3) credits for a non-standard term of eight (8) weeks duration). Unless specifically noted by the department.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch.33) or Veteran Readiness and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the student's enrollment;
- Assess a late penalty fee;
- Require student secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students will be required to:

- Produce the Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

'GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <http://www.benefits.va.gov/gibill>.

Satisfactory Academic Progress for Veterans

Veterans failing to achieve minimum standards of academic progress are placed on probation for the following semester and notified via email by the University's Veterans Certifying Official. Should satisfactory academic progress not be achieved by the following term, certification of veteran benefits will be suspended and the VA Regional Processing Office will be notified. Certification of veteran benefits can resume once satisfactory academic progress standing is attained.

Eligible veterans needing to apply for their benefits, approved veterans needing certification of enrollment, or students with questions about possible veteran benefits should contact the University's Veterans Certifying Official in Room 234 of College Hall or emailing VAbenefits@Gonzaga.edu.

Military Call to Active Duty/Training

Gonzaga students in the National Guard and Reserves and some prior active duty personnel may be called or recalled to active duty. Gonzaga University recognizes and values the important contributions made by these men and women to our country. Gonzaga supports our students who have been called to active duty and/or training by any branch of the United States armed forces. This applies to all Gonzaga University academic programs and is intended to recognize and make appropriate allowances for students who find themselves in such situations. The practices and procedures in this section *do not apply* to students ordered to active duty in another country's armed forces.

According to Federal Title X regulations, students should not be disadvantaged by being called to military service, whether for deployment or training. It is expected that everyone at the University will work together to do what is best for our students. Gonzaga has developed the following procedures to provide maximum flexibility in assisting these students. Students with activation orders or other official documentation should follow the process outlined below. Depending on when a student is called to active military duty and/or training, various processes will differ by the time of the call up and length of the call up.

1. Deployment or Training Call-Up Prior to the Start of a Semester Through the Add/Drop Period:

Students should determine if they should drop all courses in every semester or session for which they are registered that will be impacted by their call-up. Consideration should be given to the length of the call-up, the number of credits and types of courses they are registered for, and their personal assessment of their capability to make up missed classes. Should all courses be dropped, this will result in an automatic 100% refund of all tuition and related fees. The Military Call to Active Duty/Training Notification form will be submitted to the VA Certifying Official in the Office of the University Registrar. A copy of the deployment or training order will

be provided with the form. If orders are not immediately available, submit a signed letter from your command pertaining to completion of your military obligation. Sensitive information should be redacted. The student will initiate a Military Leave of Absence (MLOA). Return to Gonzaga and Reactivation/Readmission will be based on the criteria outlined in this policy.

2. Call-Up During a Term:

The Military Active Call to Duty/Training Notification form will be submitted to the VA Certifying Official in the Office of the University Registrar. A copy of the deployment or training order is to be provided with the form. If orders are not immediately available, submit a signed letter from your command pertaining to completion of your military obligation. Sensitive information should be redacted. It may not be in the best interest of the student to withdraw from the University. Academic accommodations may be possible to allow the student to progress in the existing course of study. However, students should carefully consider if missing course work necessary to meet course/degree requirements (e.g. labs, clinicals) will be impacted.

Guiding Principles for Consideration:

1. Students activated for deployment or training are held to the same standard of academic excellence expected for all students. Documented absences for scheduled deployment or training does not relieve the student of class responsibilities, including any course material covered during missed classes. Students should consider major exams, due dates for projects/papers, and mandatory class activities.
2. It is the student's responsibility to notify instructors as soon as possible regarding their deployment. Where there are schedule conflicts, absences, or other issues, the student, along with the faculty member and the student's Chair and/or Dean, will work together to achieve the most optimal solution.
3. Faculty members should make every reasonable effort to support and accommodate the student during the call-up period.
4. Students should work with faculty to develop a plan for making up missed coursework when they don't withdraw from a course. Discussions should also be made concerning changes to the student's circumstances which would not allow completion of the plan.
5. When permissible and with the instructor's agreement if the excused course is near the end of the term and the student has completed all but a small portion of the coursework, a grade of Incomplete or In Progress may be assigned. Deadlines for removal of these grades will be in accordance with University policy. No additional tuition or course fees will be charged to the student so that they can successfully complete courses for removal of the incomplete or in progress grade. Law students will follow Law School policy for withdrawing, incomplete/in progress grades, and returning to the university. .

Room and board refunds will be pro-rated based on the date of the complete withdrawal where applicable.

A transcript notation "Student Called to Active Military Duty" will be applied to the student record outlining why the withdrawal occurred. The student will initiate a Military Leave of Absence (MLOA) when withdrawing. The Electronic document can be found here <https://my.gonzaga.edu/academics/registration-enrollment/registrar-office/resources/forms>. The student record will be coded accordingly outlining information related to the Military Leave of Absence.

Reinstatement/Readmission

Reinstatement

A student will be reinstated under a reactivation procedure through the Office of the University Registrar. A Return from Military Duty form is necessary for all students wishing to re-enroll in order that the required adjustments in the student information system can be made, and so that Gonzaga University can inform the student about academic advising, registration procedures, housing options, tuition charges and financial aid options. The Electronic document can be found here <https://my.gonzaga.edu/academics/registration-enrollment/registrar-office/resources/forms>. Reinstated students will be allowed to continue with the academic requirements under the semester or session of their original entry to Gonzaga University (matriculation term) whenever possible (i.e. using the same catalog). In recognition that tours of duty frequently exceed one year in duration, every effort will be made to accommodate through exception, the special academic needs of students returning from active military duty. However, such exceptions and substitutions can be made only to the extent that they do not compromise the quality or integrity of the student's degree. The student must meet the required GPA, and financial and disciplinary requirements as any other student.

Readmission

Should it be necessary for the student to reapply for admission, policies of the Undergraduate, Graduate, and Law admission offices will be adhered to.

FINANCIAL AID IMPLICATIONS

Financial aid and payments received by these students for the term are refunded to the source, as per the Office of Student Financial Services policies.

Students who have received a refund from financial aid sources are expected to repay the financial aid according to the terms of any promissory notes they have signed. The same standards that are applied to students who have an outstanding tuition balance with the university are also applied to those called for military duty.

In addition, the University adheres to the guidance offered by the U.S. Department of Education regarding students who have received federal loans.

Students must contact their lender to request a loan deferment.

NOTE: It is recommended that students wishing to resume or begin collecting VA benefits should contact the Veterans Certifying Official located in the Office of the University Registrar to discuss the documentation needed for veteran educational benefits to be certified.

Center for Global Engagement

The Center for Global Engagement (CGE) includes International Student and Scholar Services (ISSS) and the Study Abroad Office. We believe an engaging international experience should encompass and epitomize all the strengths of an excellent university education. Positive international experiences should offer an immersion into a new culture through rigorous academics, dynamic exchange and dialogue with diverse groups, and a broad exposure to new ideas and experiences.

Study Abroad

A critical part of any education is the growth of skills, knowledge and attitudes that nurture an active engagement with the world and the people who inhabit it. If you are looking for an education that will challenge you as well as position you for an outstanding career in our increasingly interconnected world, studying abroad is a popular option at Gonzaga. Studying abroad is part of our tradition at Gonzaga. Gonzaga allows you to use your scholarships and financial aid to pay for study abroad programs that fit into your degree plan with the goal of graduating on time.

Over 60% of Gonzaga graduates study abroad compared to less than 9% of US graduates who achieve a baccalaureate degree. CGE boasts programs in over 60 locations and there are multiple programs that will allow students to earn credit toward core curriculum, major and minor requirement. To learn more about the study abroad programs at Gonzaga, eligibility and the process, explore the Study Abroad Office website at www.gonzaga.edu/studyabroad.

Gonzaga in Florence (GiF) is Gonzaga's flagship study abroad program and with a branch campus in Florence Italy. Please visit <https://www.gonzaga.edu/catalogs/current/undergraduate/other-schools-and-programs/gonzaga-in-florence> for more information.

International Students

Gonzaga welcomes applications from international students to become part of Gonzaga's Global Community. See "How to Apply" section of this catalog for information pertaining to the admission of International Students.

The Center for Global Engagement provides an international student orientation prior to the new student undergraduate orientation as well as ongoing academic, cultural, and immigration support for the duration of program at Gonzaga University.

Degrees Requirements & Procedures

A. Degrees Offered

Gonzaga University offers majors leading to the degrees listed below. For specific majors within these degrees, more information can be found under the listing of the individual School, College, or Institute. This document provides undergraduate degree information and references to the other divisions of the University. Information on graduate and legal studies can be found in the Graduate catalog and Law Student Handbook and Course descriptions. The University has the following advisory programs to assist students in preparation for admission into professional schools: pre-dentistry, pre-law, and pre-medicine. The Department of Military Science also offers a program leading to a commission in the United States Army.

- **The College of Arts and Sciences** confers the degrees, Honors and General, of Bachelor of Arts (B.A.), Bachelor of Science (B.S.) and the Bachelor of Fine Arts (B.F.A.) in Art.
- **The School of Business Administration** confers the degrees, Honors and General, of Bachelor of Arts (B.A.), Bachelor of Science (B.S.), and Bachelor of Business Administration (B.B.A.).
- **The School of Education** confers four degrees, Honors and General: Bachelor of Education (B.Ed.) in Special Education, Sport Management, Kinesiology, and Community, Culture, and Language Education. The school also provides programs leading to initial and continuing teacher certification in elementary, secondary, and special education in conjunction with the B.A. degree.
- **The School of Engineering and Applied Science** confers the degrees, Honors and General, of Bachelor of Arts (B.A.) in Computer Science and Computational Thinking and the Bachelor of Science (B.S.) in Biomedical, Civil, Computer, Electrical, Mechanical Engineering, Engineering Management, and Computer Science.
- **The School of Health Sciences** confers, Honors and General, the degree of Bachelor of Science in Nursing (B.S.N.) and B.S. in Human Physiology.
- **The School of Law** confers the degree of Juris Doctor. In cooperation with the Graduate School of Business, a combined program is offered for the M.B.A./J.D. and MACC/J.D.
- **The Institute for Informatics and Applied Technology** confers the degree (Honors and General) of Bachelor of Science (B.S.) in Data Science.

A listing of graduate programs in the above College, Schools, and Institute can be found in the graduate catalog at <https://www.gonzaga.edu/catalogs/current/graduate>.

B. Programs Offered

1. Special University-Wide Programs

Gonzaga makes available special programs for selected students in all of its Schools, College, and Institute. Further information on the following programs can be found on the Gonzaga website.

- **Honors Program:** A distinctive curriculum for academically motivated undergraduates, featuring innovative, collaborative courses and immersive educational experiences. The program is designed to complement all majors and programs at Gonzaga. Upon graduation, students in this program receive an Honors designation as part of their degree. For further information visit www.gonzaga.edu/honors.
- **International Admission:** Gonzaga University welcomes international students and provides guidance on admission criteria and required documentation. International applicants are encouraged to contact Gonzaga at admissions@gonzaga.edu.
- **International Student and Scholar Services (ISSS):** International Student & Scholar Services (ISSS) offers centralized support to student visa holders at all education levels and visiting scholars. ISSS services include immigration advising, community building, cultural adaptation, assistance with tax return, insurance and SSN processes. ISSS can be reached at ISSS@gonzaga.edu.
- **Study Abroad Program:** Gonzaga University offers a multitude of different study abroad opportunities in Africa, Asia, Europe, Latin America, the Middle East, and Oceania for the academic year, semester, or summer study. Opportunities to complete internships, research, and service learning abroad are also available.

2. Pre-Professional Programs

Pre-Health Professions: Pre-health students are those interested in pursuing a career and graduate study in fields such as Dentistry, Medicine, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, Veterinary Medicine, and other health professions. Students who are matriculating in the direct-entry undergraduate nursing program are not considered pre-health, and have access to advising and career preparation through the School of Health Sciences.

Most health professions graduate programs do not require specific undergraduate majors. At Gonzaga, students are strongly encouraged to choose a major that they are genuinely interested in studying. This will increase the likelihood of academic success, a big factor in graduate school admissions.

Health professions programs each determine their own admissions prerequisite coursework, but most require a strong foundation in the basic sciences along with coursework in the humanities, which can be found in the University Core Curriculum. In consultation with their

academic advisors, students can expect to complete a basic science curriculum that includes Biology, Chemistry, Physics, and Math. Additional science courses may be necessary based on specific program requirements.

Admission to health professions graduate programs is competitive. Schools look for candidates that have distinguished themselves in their academics, leadership, and service and gained the skills necessary to be effective members of their professions. Health professions graduate programs assess cognitive abilities primarily through GPA and standardized admission tests. Students have the opportunity to demonstrate a commitment to their chosen field and highlight personal attributes and experiences by submitting an application, writing several essay questions, requesting letters of recommendation, and participating in interviews. Hands-on experience in healthcare settings is vital to both the preparation and admission processes. This clinical experience exposes students to the complex duties expected of today's healthcare professionals and enables them to make informed career decisions.

The Health Professions Pathways Program (H3P) provides comprehensive support for students from all majors interested in pursuing graduate study and future careers in the health professions. For more information, visit www.gonzaga.edu/h3p or email h3p@gonzaga.edu.

Pre-Law:

A bachelor's degree is typically required for admission to law school. Law schools do not require or prefer certain undergraduate majors and strive to admit students from a variety of backgrounds. Students are encouraged to work with advisors to select a major that matches their strengths and interests and helps them prepare for a future law career. Courses that enhance reading comprehension, research, writing, and critical analysis skills are beneficial; these abilities are crucial to success on the Law School Admission Test (LSAT) and as a future law school student.

Law schools tend to admit students who have a clear motivation to study law, have done well in their undergraduate studies, and scored well on their standardized admission exam. Students should seek opportunities to learn more about the legal field; this may include job shadowing, informational interviewing, internships, mentoring, and work experiences. Law schools also evaluate candidates based on their resume of co-curricular, professional, and life experiences. Students often develop valuable skills through involvement with clubs and organizations, service, study abroad, research, work, and other experiences.

Gonzaga University pre-law advising is coordinated by Career & Professional Development (CPD) and Fr. Bryan Pham serves as the university's pre-law advisor. Gonzaga pre-law provides students with information and support through workshops and 1-on-1 appointments on topics including career discernment, experiential engagement, and the application process. For more information, please visit the Gonzaga pre-law website.

Degree Requirements

A. University Wide Undergraduate Degree Requirements

- Completion of a minimum of 128 semester credits.
- Completion of the core requirements of the University.
- Completion of all common curriculum from the individual school or college.
- Undergraduate courses or post baccalaureate course work may not be counted toward a graduate level degree. Graduate and doctoral level courses may not be counted toward an undergraduate or post baccalaureate degree.
- A minimum cumulative grade point average of 2.00.
- Completion of upper-division major and minor requirements with a minimum cumulative grade point average of 2.00 in those courses. The majority of the required upper-division major, minor, and concentration credits must be from Gonzaga.
- Courses graded with a “P” (pass) grade mode can only be used as elective credit. Credit earned with a “P” may not be used to satisfy core, major, minor, or concentration requirements.
- Senior Residency Requirement: The last 30 semester credits immediately preceding graduation must be earned in Gonzaga University course work. Students can petition for a waiver of this requirement via the Permission to Transfer Credits/Senior Residence Waiver form available in the University Registrar’s Office. Under a Senior Residence Waiver, students may petition to take up to a maximum of 18 credits off campus. Students whose cumulative or major GPA is below a 2.00 are not eligible for a waiver.
- Formal application for graduation: Students must file an application and pay the graduation application fee according to the instructions and dates published by the University Registrar. Degrees will be awarded upon completion of all requirements in March, May, June, August, October or December, with one public commencement ceremony held in May. Administration of honors level designations will be based on the fall semester credits earned and cumulative GPA for inclusion in the annual May commencement ceremony. The final honors designation, if earned by the student, will be reflected on the transcript and the diploma for the semester of degree conferral.
- Fractional credit is never rounded up on a course nor is the total minimum credits required for a Gonzaga degree of 128 semester credits. The calculation of the cumulative GPA and major GPA is never rounded up.
- Once a student has graduated from the University and a degree has been posted, no further change can be made to the academic record (for example, grade changes).
- Course attendance is not allowed without official registration and financial confirmation.

Note: Payment of all indebtedness to Gonzaga University, the return of all equipment to the appropriate entity, and the return of all books to Foley Library are required prior to graduation. Holds may be placed on diplomas for any of these deficiencies.

B. University Core Curriculum

In addition to their major and minor areas of study, all undergraduate students follow a common program designed to complete their education in those areas that the University considers essential for a Catholic, Jesuit, liberal, and humanistic education. The University Core curriculum consists of forty-five credits of course work, with additional designation requirements that can be met through core, major, or elective courses.

The University Core curriculum is a four-year program, organized around one overarching question, which is progressively addressed through yearly themes and questions. Hence, core courses are best taken within the year for which they are designed. First year core courses encourage intellectual engagement and provide a broad foundation of fundamental skills. Second and third year courses examine central issues and questions in philosophy and religious studies. The fourth year course, the Core Integration Seminar, offers a culminating core experience. Taken at any time throughout the four years, broadening courses intersect with the core themes and extend students' appreciation for the humanities, including social and behavioral Sciences, literature, history, and fine arts & design. Finally, the designation requirements (writing enriched, global studies, and social justice) reflect important values and reinforce students' knowledge and competencies.

Overarching Core Question: As students of a Catholic, Jesuit, and Humanistic University, how do we educate ourselves to become women and men for a more just and humane global community?

Year 1 Theme and Question: Understanding and Creating: How do we pursue knowledge and cultivate understanding?

- The First-Year Seminar ("Subject Code" - 193, 3 credits): The First-Year Seminar (FYS), taken in the fall or spring of the first year, is designed to promote an intellectual shift in students as they transition to college academic life. Each small seminar is organized around an engaging topic, which students explore from multiple perspectives. The FYS is offered by multiple departments across the University.
- Writing (ENGL 101, 3 credits) and Reasoning (PHIL 101, 3 credits): The Writing and Reasoning courses are designed to help students develop the foundational skills of critical reading, thinking, analysis, and writing. They may be taken as linked sections. Writing (ENGL 101) carries one of the three required writing-enriched designations (see below).

- Communication & Speech (COMM 100, 3 credits): This course introduces students to interpersonal and small group communication and requires the application of critical thinking, reasoning, and research skills necessary to organize, write, and present several speeches.
- Scientific Inquiry (BIOL 104/104L, CHEM 104/104L, or PHYS 104, 3 credits): This course explores the scientific process in the natural world through evidence-based logic and includes significant laboratory experience. Students pursuing majors that require science courses will satisfy this requirement through their major.
- Mathematics (above Math 100, 3 credits): Mathematics courses promote thinking according to the modes of the discipline—abstractly, symbolically, logically, and computationally. One course in mathematics, above Math 100, excluding MATH 193 and including any math course required for a major or minor, will fulfill this requirement. MATH 100 (College Algebra) and courses without the MATH prefix do not fulfill this requirement.

Year 2 Theme and Question: Being and Becoming: Who are we and what does it mean to be human?

- Philosophy of Human Nature (PHIL 201, 3 credits): This course provides students with a philosophical study of key figures, theories, and intellectual traditions that contribute to understanding the human condition; the meaning and dignity of human life; and the human relationship to ultimate reality.
- Christianity and Catholic Traditions (RELI, 3 credits). Religious Studies core courses approved for this requirement explore diverse topics including Christian scriptures, history, theology, and practices as well as major contributions from the Catholic intellectual and theological traditions.

Year 3 Theme and Question: Caring and Doing: What principles characterize a well lived life?

- Ethics (PHIL 301, RELI 276, RELI 376, RELI 377, 3 credits): The Ethics courses are designed to help students develop their moral imagination by exploring and explaining the reasons humans should care about the needs and interests of others. This requirement is satisfied by an approved ethics course in either Philosophy (PHIL 301) or Religious Studies.
- World/Comparative Religion (RELI 3 credits): Religious Studies courses approved for this core requirement draw attention to the diversity that exists within and among traditions and encourage students to bring critical, analytical thinking to bear on the traditions and questions considered. These courses carry one of the required two global-studies designations (see below).

Year 4 Theme and Question: Imagining the Possible: What is our role in the world?

- Core Integration Seminar (“Subject Code” 432, 3 credits). The Core Integration Seminar (CIS) offers students a culminating core experience in which they integrate the principles of Jesuit education, prior components of the core, and their disciplinary expertise. Some CIS courses may also count toward a student’s major or minor. The CIS is offered by multiple departments across the University.

The Broadening Courses

- Fine Arts & Design (VART, MUSC, THEA, DANC, 3 credits): Arts courses explore multiple ways the human experience can be expressed through creativity, including across different cultures and societies. One approved course in fine arts, music, theatre, or dance will fulfill this requirement.
- History (HIST, 3 credits): History courses are intended to develop students’ awareness of the historical context of both the individual and the collective human experience. One approved course in History (one 100-level History Course) will fulfill this requirement.
- Literature (3 credits): Literature courses foster reflection on how literature engages with a range of human experience. One approved course in Literature (offered by English, Classical Civilizations, or Modern Languages & Literature) will fulfill this requirement.
- Social & Behavioral Sciences (3 credits): Courses in the social and behavioral sciences engage students in studying human behavior, social systems, and social issues. One approved course offered by Criminology, Critical Race and Ethnic Studies, Economics, Political Science, Psychology, Sociology, or Women, Gender, and Sexuality Studies will fulfill this requirement.

The Designations

Designations are embedded within already existing core, major, minor, and elective courses. Students are encouraged to meet designation requirements within elective courses as their schedule allows; however, with careful planning students should be able to complete most of the designation requirements within other core, major, or minor courses.

- Writing Enriched (WE; 3 courses meeting this designation): Courses carrying the WE designation are designed to promote the humanistic and Jesuit pedagogical ideal of clear, effective communication. In addition to the required core course, Writing (ENGL 101), which carries one of the WE designations, students must take two other WE-designated courses. Ideally, students will take at least one WE course within their major.

- Global-Studies (GS; 2 courses meeting this designation): Courses carrying the GS designation are designed to challenge students to perceive and understand human diversity by exploring diversity within a context of constantly changing global systems. In addition to the required core course, World/Comparative Religion, which carries one of the GS designations, students must take one other GS-designated course.
- Social-Justice (SJ; 1 course meeting this designation): Social justice lives at the heart of the Gonzaga mission. Courses carrying the SJ designation are designed to introduce students to one or more social justice concerns. Students must take one course that meets the SJ designation.

Each course fulfilling a core requirement is designed around a common set of learning outcomes. Therefore, only those courses approved for each core requirement will fulfill the requirement. Please consult the University Core Registration Guide posted on the University Core Website while logged into my.gonzaga.edu for lists of approved core courses in each area: www.gonzaga.edu/core.

Major-specific adaptations to the University Core Curriculum

All Gonzaga students, regardless of their major, will complete the University Core curriculum requirements. However, some Gonzaga students will satisfy certain core requirements through major-specific programs or courses. Any major-specific adaptations to the core are described with the requirements for the majors to which they apply.

C. Catalog Options

Students entering Gonzaga after June 1, 1981 may select the core and degree requirements from any appropriate catalog which is within **six years prior to their graduation**. Students who entered before June 1, 1981, do not have a time limit regarding the catalog they select. An appropriate catalog is one in effect when a student attends with regular status as an undergraduate in a degree program. Summer term attendance does not qualify. The complete degree requirements of only one catalog must be followed. Selections may not be made from more than one catalog. Substitutions for discontinued courses are required and must be authorized by the proper University authorities.

D. Major Area

A major is a primary focus of study. Either at the time of entrance or by the end of their second year, undergraduates should declare the particular field in which they wish to do their major work. They are then directed to the proper department for advice in planning a program of study.

The major normally consists of at least eighteen credits of upper-division course work in the major field and such supporting courses as the department requires. The major is listed on the final transcript but not on the diploma with the exception of Engineering, Education, Human Physiology, and Nursing.

E. Minor Area: Minor Courses of Study

A minor is a secondary focus of study, for example, major in Biology with a minor in Art. An optional minor study program is offered by most of the departments within the University, that is, a minor is not required for all majors. Specific requirements can be found under the individual departments. The minor must be officially declared and is listed on the final transcript.

A minor differs from a concentration in that the latter is a focus of study with a major, for example, a major in Business Administration with a concentration in Finance.

F. Second Majors, Minors, and Degrees

Under a Gonzaga baccalaureate degree, a student may complete more than one major and/or minor under that degree type (i.e. Bachelor of Arts with majors in Sociology and in Psychology). Students can receive more than one baccalaureate degree at the same time (i.e. Bachelor of Arts and Bachelor of Science). This is accomplished by completing the common curriculum in both schools and major requirements in addition to completing a minimum of 158 semester credits. Students who already hold an undergraduate degree from Gonzaga or any other institution can enroll at Gonzaga for a second degree as a post baccalaureate student. Gonzaga University offers second majors, second minors, and second degrees according to the following norms:

Second Major:

- The student must fulfill all departmental requirements for the second major and all the common curriculum requirements of the school or college wherein the major is offered.
- The student must formally declare the second major.

- At least during the third and fourth years, the student should utilize the advice of a faculty member in the department of the second major.

Second Minor:

- The student must fulfill the requirements of the department. If the minor is in a school other than the major, the second school common curriculum requirements need not be fulfilled.
- The student must formally declare a second minor.
- The diploma does not indicate a minor, but it is listed on the transcript.

Second Degree (Undergraduate):

- The student must fulfill 30 Gonzaga credits beyond the 128 completed for the first degree.
- The student must fulfill all University core requirements, individual school curriculum requirements and departmental requirements for the second degree; credit and requirements fulfilled under the first degree cannot be repeated in the second degree.
- The student must formally declare the second degree and apply for the second degree prior to graduation.
- A second diploma is awarded only when the second degree is distinctly different from the first.

Second Degree (Post Baccalaureate):

- The student must be admitted to the University by the Office of Undergraduate Admission.
- The student will enter under the academic curriculum of the current catalog and be subject to the current academic policies. This will require the student to take all courses that are new requirements for the school/college since his/her original degree.
- The minimum GPA requirement to receive the degree is a 2.00.
- Students must complete a minimum of thirty credits at Gonzaga University. Any course work considered transferable toward the second degree would require a student to adhere to the course substitution petition process.
- Courses used to complete another degree either through Gonzaga University or another institution cannot be used toward the second degree.

G. Activity Courses

No more than **eight (8)** activity credits can be counted toward a baccalaureate degree.

The following courses, which may be repeated, are designated as activity courses: Dance (DANC): 301; Journalism (JOUR): 220 & 230; Music (MUSC): 131A-131Z, 132A; 133-134, 136-137, 143-154, 156-157, 331A-331Z, 332A; 358; Theatre Arts (THEA): 124-125, 226, 260-261, 320, 324; Physical Education (EDPE): 101-188

Exceptions to these limitations:

- Kinesiology Majors (B. Ed.) are, with the permission of the Chairperson of the Kinesiology department, allowed a total of four (4) EDPE activity courses beyond the eight (8) credit limit for all activity courses. **(twelve (12) credit maximum)**
- Majors and minors in Music or Music Education and Theatre Arts and Dance may exceed the eight (8) credit limit.

H. Multiple Usage of Courses for Meeting Degree Requirements

1. A course may be used to fulfill any number of MAJOR, MINOR, AND CONCENTRATION requirements while also fulfilling a University Core requirement. Using a course to meet more than one core requirement is not allowed with the exception of the designation requirements (i.e., Writing Enriched (WE), Global Studies (GS), and Social Justice (SJ)).
2. When multiple usage of a course occurs in meeting degree requirements, the course credit is counted only once. The grade is used in determining the major and minor grade point averages.
3. The 128 credits required as a minimum for degree completion (and the additional 30 credits required for a second degree) are not reduced by a multiple count toward meeting a major, minor, concentration or core requirement.

I. Pass/Fail Grade Course Limit

No more than five (5) Pass/Fail graded courses can count toward a baccalaureate degree, and no more than two (2) can be taken in any one department. This grading option only applies to courses taken as general elective credit.

Academic Policies

A. Disclaimer for Academic Policy and Program Changes

The University reserves the right to make changes in courses, programs, faculty, calendar, tuition and fees, grading procedures, graduation requirements, admission criteria, and any other information contained in this catalog at any time without notification. Changes become effective when the University so determines, and applies to prospective students as well as students currently enrolled. The University will notify students of changes through publications and notices.

B. Disclaimer for Course Availability

All reasonable care is taken to ensure that both course offerings and degree requirements contain no erroneous, deceptive, or misleading information by omission, actual statement, or implication. Every effort will be made by the University to offer at least the courses listed in this catalog during the period in which it is in effect; student enrollment and faculty availability, however, may affect the courses offered. Some courses listed in this catalog are offered only as needed. The decision to offer such courses rests with the Chairperson in consultation with the appropriate Dean. Final course information is published on ZAGWEB.

C. Course Numbering System

Lower Division Courses:

Below 100 - Remedial in nature; University credit is granted for no more than two courses numbered below 100 and they do not fulfill any core or major requirements.

100-199 - Primarily first and second year courses for which there are normally no prerequisites.

200-299 - Courses with usually one prerequisite; primarily for first- and second-year undergraduates.

Upper Division Courses:

300-399 - Courses usually with prerequisites; primarily for third- and fourth-year undergraduates.

400-499 - Courses with prerequisites; primarily fourth-year undergraduates.

500-599 - Graduate courses which may be taken by third- and fourth-year undergraduates with

Dean's permission (these courses do not count toward a baccalaureate degree).
600-699 - Graduate courses for graduate students only.
700-799 - Graduate courses for doctoral students only.

D. Classification of Students

An undergraduate student is classified as a First Year, Second Year, Third Year or Fourth Year based upon the cumulative number of semester credits he/she has earned.

Cumulative Credits Earned	Classification
0 - less than 26	First Year
26 - less than 60	Second Year
60 - less than 96	Third Year
96 - and above	Fourth Year

A post baccalaureate student holds a bachelor's degree from an accredited university and has not been admitted to a graduate program. They may be pursuing a second bachelor's degree or attending for personal enrichment.

E. Transfer and Evaluation of Credits

Applicants with credit earned at other colleges and universities (including dual-enrollment and running start) should note the following conditions regarding the transfer of college credit:

Official Transcripts

To be eligible for transfer credit, applicants must provide official transcripts from all post-secondary institutions attended.

- An official college transcript is one that is marked as such and often contains security enhancements for authenticity.
- Official transcripts must be issued directly from the originating college or university in a sealed envelope by mail or secure electronic delivery and delivered to Gonzaga's Office of Admission.
- Transcripts issued directly to the student or delivered open or unsealed are considered unofficial and cannot be used for the purpose of awarding transfer credit.
- Students with credit earned through a foreign institution must provide certified original documents. Any materials or transcripts in a language other than English requires an

official English translation provided by the sending institution or a translation agency.

- College credit earned outside of the U.S. must generally be accompanied by a NACES approved professional foreign credential evaluation unless credit was earned through an approved study abroad program.

Accreditation

Gonzaga University will evaluate and consider transfer credit from post-secondary institutions recognized by a U.S. regional accreditation organization as defined by the Council for Higher Education Accreditation (www.chea.org):

- Higher Learning Commission
- Middle States Commission on Higher Education
- New England Commission of Higher Education
- Northwest Commission on Colleges and Universities
- Southern Association of Colleges and Schools Commission on Colleges
- Western Association of Schools and Colleges:
 - Senior College and University Commission
 - Accrediting Commission for Community and Junior Colleges

Foreign college-level coursework completed outside of the United States must originate at an institution fully recognized by the Ministry of Education, or similar accrediting body, in the country in which the institution resides. Post-secondary coursework from a foreign institution meeting accreditation requirements will be evaluated for transfer credit in accordance with the domestic transfer credit policies that follow.

Transfer Credit Eligibility

Gonzaga University will evaluate and award transfer credit on a course-by-course basis.

Transfer coursework must meet the following eligibility criteria:

Eligible for Credit	Ineligible for Credit
College-level and above	Remedial, preparatory (i.e., ESL), below 100-level, and learning support courses
Academic coursework	Technical, Vocational/Career-oriented, Certification programs, Portfolio, Continuing Education Units, Workshops, and Non-credit bearing coursework
Credit awarded directly from an accredited institution	Credit listed or identified on a transcript as transfer credit, test-credit, credit for prior learning, or credit by exam

Transfer Credit Grades

Gonzaga University accepts college-level coursework completed with a minimum of a 2.00 (or “C”) grade.

Pass (P), Satisfactory (S), or Credit (CR) grades and the equivalent, will be accepted as general elective credit when the sending institution clearly states that these grades are the equivalent of a C (2.0) grade or higher.

- Pass (P) graded coursework accepted in transfer will not fulfill any core, major, minor, or concentration requirements.
- No more than five (5) Pass (P) graded courses may be accepted as transfer credit and count toward a baccalaureate degree.
- Transfer course grades are not calculated into the Gonzaga University GPA. Once accepted and applied to a student record, transfer credit is assigned a ‘T’ grade and will not be included in the Gonzaga GPA calculation.
- Repeated courses are reviewed and accepted for credit only once, even if completed at different institutions.
- The most recent grade received is generally used in the transfer credit evaluation process.
- When transfer credit is awarded the equivalent of a Gonzaga course, and the student elects to retake that course at Gonzaga, the transfer credit will be removed from the student’s academic record.
- When exam scores (AP, IB) and eligible college credit are equivalent to the same Gonzaga course equivalency, the student may not receive the equivalency twice.

Credit Conversion

College coursework completed on a quarter or unit educational system will be converted to semester credits upon transfer credit evaluation. If the originating institution operates on a unit-system calendar, conversion of credit hours will be based on that institution’s formula for converting values to semester credits. To convert quarter credits to semester credits, multiply total quarter credits by 0.66. When a credit conversion results in partial credit and a Gonzaga course equivalent is offered, the partial credit is awarded to the Gonzaga equivalent. If the partial credit is less than one full credit short of the Gonzaga equivalent credit, the requirement will be considered complete (for example, quarter credits converted to semester credits between 2.50 and 2.99 will fulfill a 3-semester credit course equivalency).

All students must complete a minimum of 128 semester credits total to qualify for a Gonzaga degree. Any partial credit totaling less than 128 semester credits, but greater than 127 credits, must be earned by completing a one semester credit course.

Foreign credit conversion to semester units follows the best practices of the American Association of Collegiate Registrars and Admissions Officers (AACRAO) and may require further

review of class hours for comparison to hours required per credit on a semester calendar system.

Credit for Prior Learning

Service member education earned while in the Armed Forces is eligible for transfer credit at Gonzaga University. This training is ungraded coursework, therefore credit for prior learning will not be included in a student's evaluation for admission purposes.

Gonzaga University may offer up to 25 general elective credits for successfully completed educational training received during military service. Up to 8 of these 25 elective credits may be granted for physical fitness courses and training. To receive credit, submission of an official Joint Service Transcript is required.

Credit for military training and education is evaluated according to available American Council on Education (ACE) credit recommendations. Credit considered for Gonzaga course equivalency must be comparable to a GU course offering in content, level, depth, and duration. Faculty review of learning outcomes will determine if direct course equivalency may be offered.

Graded college-level coursework that is academic in nature and earned at an accredited institution such as the Community College of the Air Force or the Defense Language Institute, will be evaluated on a course-by-course basis. Vocational and technical level coursework is non-transferable. No more than 64 semester credits may be granted for academic credit from institutions only offering two-year degrees.

Credit by Exam

Gonzaga currently accepts Advanced Placement (AP), International Baccalaureate (IB), Cambridge International (A & AS level), and German Abitur exam scores meeting the level and minimum scores outlined in the Running Start & Credit by Exam policies online. Official exam scores must be issued to the Office of Admission before transfer credit can be awarded. Exam scores will not be included in a student's evaluation for admission purposes, with exception to global applicants from countries that include credit by exam within secondary education requirements.

Gonzaga University does not currently accept CLEP or DAN TES credit by exam for undergraduate transfer credit. Exam credit used to fulfill coursework at prior institutions may need to be completed at Gonzaga if the coursework is required for a GU degree.

Transfer Course Equivalencies

College coursework deemed acceptable for transfer credit requires an initial review of the course description to determine comparability to a Gonzaga equivalency. Transfer credit will be designated as elective credit when a Gonzaga course equivalency is possible but cannot be readily determined upon initial review by the Office of Admission. In such cases, the student must provide a syllabus, learning outcomes, and relevant lab schedules to the Office of Admission for distribution to faculty for review. If coursework is originating at a foreign institution, all original course materials must be accompanied by an English translation.

Academic department chairs may determine course equivalents to respective major, minor and concentration requirements at Gonzaga. Course equivalents respective to Gonzaga's Core Curriculum may be determined by the discipline's department chair faculty or the Core Director. Upon approval, the initial transfer credit equivalency may be updated to reflect the decision.

Coursework completed at the community college level is considered lower division (100-200 level) and will not generally be considered for upper division (300-400 level) equivalency, unless approved following the Department Chairperson and/or the Dean review of a course syllabus. A transferring institution must generally offer bachelor's level coursework for upper division equivalency.

Transfer Credit Appeals

If an admitted student wishes to appeal a transfer course equivalency or appeal for credit not originally awarded, the student may initiate the appeal process in writing. Appeals must be directed to the transfer credit evaluation team at transfercredit@gonzaga.edu within 60 days of receiving an official transfer credit offer following admission to the University. Supporting documentation includes course syllabi with learning outcomes, topics covered, and lab schedules, must be attached to the appeal request.

Transfer Credit Restrictions

Transfer credit from a two-year institution (community or junior college) is limited to a maximum of 64 semester credits (96 quarter credits) that can be applied to a baccalaureate degree at Gonzaga.

- Students transferring with a maximum of 64 semester credits from a community or junior college are not permitted to further enroll at a two-year institution for additional transfer credit.

There is no limit to the amount of credit that may be transferred from an accredited baccalaureate institution. However, all transfer and post-baccalaureate students must

complete a minimum of 30 semester credits at Gonzaga immediately preceding graduation from the University (see Senior Residency Requirement below).

- At least 50% of required upper-division degree credits must be earned at Gonzaga.
- Transfer students in the School of Business Administration must earn at least 50% of business credits at Gonzaga University.

Senior Residency Requirement: The last 30 semester credits immediately preceding graduation must be earned in Gonzaga University course work. Students can petition for a waiver of this requirement via the Permission to Transfer Credits/Senior Residence Waiver form available in the University Registrar's Office. Under a Senior Residence Waiver, students may petition to take up to a maximum of 18 credits off campus. Students whose cumulative or major GPA is below a 2.00 are not eligible for a waiver.

Advanced Placement Exam Policy

Recognizing that prospective students and their families would be served by a clearly articulated policy on the Advanced Placement (AP) examinations, the Policy and Planning Committee moves that the following AP policy be adopted at Gonzaga:

1. The University identifies relevant AP subject exams and informs the appropriate academic areas.
2. A student who scores 4 on an AP exam receives credit for a relevant introductory course.
3. A student who scores 5 on an AP exam receives credit for the first course toward the relevant major.
4. Departments may establish specific policies through an appeal process with the area Dean and AVP.
5. The courses identified and the scores necessary to receive credit for them will be listed on the University website.

F. Transfer Degrees

Students enrolling at the University with an earned associate degree as identified below, are generally given third-year credit standing (60 to 64 semester credits) and will have fulfilled many of the requirements within the University Core curriculum. University Core requirements to be completed upon matriculation with an approved transfer degree include: First-Year Seminar, Christianity & Catholic Traditions, and the Core Integration Seminar. Students will also take a major-appropriate college Mathematics, Reasoning, Human Nature, and Ethics, unless they have already fulfilled these requirements with approved transfer credit. Communication and Speech is recommended, but not required, for students who have not completed a course in public speaking.

Degrees that transfer directly to Gonzaga University are as follows:

Arizona State Community Colleges:

- Associate in Arts with Arizona General Education Curriculum A (AA with AGECA)

California State Community Colleges:

- Associate in Arts with Intersegmental General Education Transfer Curriculum (AA with IGETC certification)

Idaho State Public Universities and Community Colleges:

- Associate of Arts (AA)
- Associate of Science (AS)

Oregon State Community Colleges:

- Associate of Arts Oregon Transfer (AAOT)

Washington State Community Colleges:

- Associate of/in Arts – Direct Transfer Agreement (AA-DTA), including DTA's for Major-Related Programs in Business and Computer Science.
- Associate of Science Transfer (AS-T), Engineering – Track 2.

Gonzaga's acceptance of the DTA is part of an interinstitutional transfer agreement upheld by the Intercollege Relations Commission (ICRC) for Washington State. <https://www.wa-council.org/icrc/>

Acceptance of a transfer degree does not guarantee admission to the University. Prospective students are encouraged to contact the Office of Admission for advice in advance of an application for admission.

Reverse Transfer Degrees:

Gonzaga does not currently participate in Reverse Transfer partnerships and will not recognize an approved transfer degree that is obtained using Gonzaga coursework. Therefore, former Gonzaga students who re-enter the University from a two-year college to complete their undergraduate degree will not benefit from the core waiver privileges offered to an approved associate degree holder from a community college in Washington, Oregon, California, Arizona, or Idaho. All readmitted Gonzaga students must fulfill the University's Core requirements entirely. Eligible transfer credit completed by a reapplying student, however, will be evaluated and accepted on a course-by-course basis.

Associate of Applied Science Degrees:

Gonzaga does not currently accept the associate of applied science degrees from the community and technical colleges. Eligible transfer credit completed by a student matriculating with an earned applied science degree will be evaluated on a course-by-course basis.

Post Baccalaureate Students:

Post-baccalaureate students matriculating for a second bachelor's degree may benefit from the same Core Waiver policy that Gonzaga affords a transfer student with an approved AA-DTA or AS-T from a Washington State community college. Bachelor degrees earned at recognized foreign institutions are evaluated on an individual basis to determine U.S. equivalency.

Post-baccalaureate students who had earned their first undergraduate degree from Gonzaga will be considered as having completed the Core entirely, including the designations, regardless of when the student completed their first degree.

All other requirements within a student's post-baccalaureate degree may be waived (such as a lower division major, minor, concentration requirement) if completed as a requirement of the first degree earned, or if completed at Gonzaga.

Any waiver or substitution of upper division major requirements would be at the discretion of the department chair for which the student is completing the post-baccalaureate major.

Post-baccalaureate students will be required to complete a minimum of thirty semester credits in residence to earn a second bachelor degree from Gonzaga along with completion of any outstanding major, minor, or concentration courses required for the degree.

University Core Waivers

- Students transferring to Gonzaga with 30 or more earned semester credits are permitted to waive the College of Arts and Sciences language requirement.
- Students transferring to Gonzaga with 45 to 59 earned semester credits are permitted to waive the following University Core requirements: World or Comparative Religion and its corresponding Global Studies designation, one Writing-Enriched designation, and one of the additional three designation requirements (either Writing Enriched, Global Studies or Social Justice).
- Students transferring to Gonzaga with 60 or more earned semester credits are permitted to waive World or Comparative Religion and all designation requirements.

Permission for Transfer of Credits by Current Students

Consistent with University policy and existing articulation agreements, courses accepted in transfer must be similar in content and depth to courses taught at Gonzaga. Courses should generally align with the course/designation descriptions and learning outcomes.

For students entering the University prior to Fall of 2016, in order to fulfill a Core requirement, a major-specific requirement, or elective credit at Gonzaga, the transferred course must receive the approval of the department Chairperson and Dean of the college or school by way of the Permission to Transfer Credits/Senior Residency Waiver form.

For students entering the University in Fall of 2016 and forward, course syllabi detailing course requirements must be provided; course titles and descriptions are not sufficient. AP courses will not be accepted in fulfillment of designation requirements (e.g., GS, SJ, WE).

For current students irrespective of the semester of entry, the following applies:

- Students must obtain permission to transfer credits *prior* to taking these credits from department Chairperson, Deans or the Core curriculum director.
- Pass (P) grades, or the equivalent, will be accepted as elective credit only and will not fulfill any Core, major, minor, or concentration requirements.
- Transfer course grades are not calculated into the Gonzaga University cumulative GPA.
- When transfer credit has been posted to a student record that has equivalency to a Gonzaga course and a student elects to complete the same course at Gonzaga, the transfer credit entry will be removed from the student's academic record. If a student elects to complete a transfer course deemed equivalent to a course previously taken at Gonzaga after the Gonzaga course has been completed with a D grade and credit earned, the transfer course will not be accepted in transfer at Gonzaga.
- Taking a course in transfer in order to replace a grade earned at Gonzaga (excluding W, V or F grade) does not qualify under Gonzaga's Repeat of Credit Policy.
- Quarter credit hours are convertible to semester credit hours when multiplied by 0.66.
- Transfer credit from a two-year institution (community or junior college) is limited to a maximum of 64 semester credits (96 quarter hours) that can be applied toward a baccalaureate degree at Gonzaga.
- It is not permissible for students who transfer to Gonzaga with a maximum of 64 semester credits from a community or junior college to further enroll at a two-year institution to complete additional transfer credit.
- There is no limitation to the number of credits that may be transferred from a baccalaureate institution. However, all transfer and post-baccalaureate students must complete a minimum of 30 semester credits at Gonzaga immediately preceding graduation from the University.

- Students may not register for courses through any other institution while on a Leave of Absence status through Gonzaga (with the exception of non-sponsored study abroad programs.) Doing so will invalidate the Leave of Absence request and students will be required to reapply for admission.
- Credit earned from transfer courses is not rounded up. Current students may view the Transfer Guide on the Admissions website as a guideline for courses previously approved in transfer from other universities; individual approval is still required by way of the Permission to Transfer Credits/Waiver of Senior Year in Residency form.
- As soon as credit is completed from another institution, students must request official transcripts be forwarded to the Office of the University Registrar, Gonzaga University, AD Box 83, 502 E Boone Ave, Spokane, WA, 99258-0083. Official electronic transcripts will be accepted, but only when sent directly from the transfer credit institution to Gonzaga. Electronic transcripts forwarded from students will be considered unofficial.
- A student wishing to register simultaneously at Gonzaga and another college or university must obtain prior written permission from the appropriate academic Dean.
- Transfer students in the School of Business Administration must earn at least 50% of their business core and major coursework at Gonzaga University.

G. Transfer Transcripts

Based on standard institutional practice, copies of transcripts from other educational institutions attended by Gonzaga students are housed in student files and will not be provided back to the student. Students are asked to contact the issuing transfer institutions directly to obtain additional copies of their transfer transcript records.

H. Registration Procedures

Every semester, a Student/Advisor Action Guide, providing a detailed registration timeline can be found on the Office of the University Registrar's web pages. If a student attends a course section in which he or she is not registered or financially confirmed, no credit or grade will be recorded. Attendance in a course without registration is not permissible.

I. Change in Course Registration

Courses may be changed only during the period listed under Important Dates and Deadlines on the web pages of the Office of the University Registrar.

Courses dropped during the official change of registration period do not appear on the student's record; courses officially withdrawn after that period will appear on the transcript with a designation of "W" (Official Withdrawal).

J. Course Overload

Students in good academic standing may petition their college, school, or institute's Dean to take more than the maximum of 18 credits. Additional tuition charges apply for the extra credits. Students in the Honors Program, the Comprehensive Leadership Program, the ROTC Program, or the Hogan Entrepreneurial Leadership Program, however, with the approval of the respective Program Director, may take extra credits beyond 18 without charge.

K. Audit a Course

Audit grading option (AU grade assigned):

Auditors are students who register for a course under the 'Audit' grading option by signing the audit form in the University Registrar's Office. Regular tuition is charged. Activity courses (e.g., physical education, music, art, etc.) are not permitted to be taken under the Audit grading option. Auditors will not be allowed access to individual instruction, to equipment, or to supplies in conjunction with the course. Once a course is registered for using the 'Audit' grading option, students who fail to attend the class according to the regular attendance requirements of the class are liable to receive a "V" grade at the discretion of the professor.

- Registration is available through the add/drop period. The auditor registers for a lecture method course under the Audit grading option and pays tuition based on this option and course credits. A designation of "AU" is recorded on the auditor's academic transcript if the auditor satisfactorily attended the course. An "AU" on a student's transcript reflects no academic credits earned and indicates that the person has received exposure to the course content for an academic semester/term. The "AU" designation does not apply toward meeting degree requirements.
- A professor may assign a "V" grade for unofficial withdrawal when attendance is unsatisfactory.
- Under this option, audited course credits are not counted toward meeting full-time credit requirements for financial aid eligibility, student loans, VA benefits, etc., although standard tuition is paid for the credits. Auditors should be very cautious about registering using the 'Audit' grading option.

L. Course Challenge Program

Students who have completed at least twelve credits at Gonzaga who are matriculated students may be able to take advantage of the Course Challenge option. The "Course Challenge" policy provides students with an opportunity to receive credit for a course in which they have demonstrated mastery of the subject matter by way other than regular course attendance and

completion of the formal course requirements. Detailed information and regulations regarding this program can be obtained from the University Registrar's Office. There is a fee charged per credit challenged and credit taken under the program may not exceed the maximum credit allowed of 18 credits in a semester.

M. Complete Withdrawal from the University

Undergraduate students who register but decide not to attend the University should contact the University Registrar's Office. The complete withdrawal process requires approvals and an interview with personnel in the University Registrar's Office. Tuition adjustments are based on the date a University official is notified by the student that they wish to withdraw. The tuition adjustment schedule for a complete withdrawal is posted on the Student Accounts webpage at <https://www.gonzaga.edu/admission/tuition-scholarships-aid/student-accounts/refunds>. Refunds for room and board will be prorated throughout the semester. Financial aid funds will be refunded in accordance with University and governmental regulations.

N. Leave of Absence

Students who are pursuing a bachelor's degree at Gonzaga and must interrupt their education for a period of not more than two regular semesters (summer not included) may be eligible for a Leave of Absence (LOA) from the University. To be eligible for a LOA, a student must have a minimum G.P.A. of 2.00 in the preceding fall or spring semester and a cumulative grade point average of 2.00 or higher, as well as obtain approval from the Office of the University Registrar and the Resolution Center for Conduct and Conflict.

Students are not eligible to reside on campus, attend classes, or participate in regular campus activities during their absence. Students who attend another school during their LOA will have that status voided and they must apply for re-admission to the University. The LOA will not extend beyond two semesters. Students who wish to return to the University after the termination date of their LOA must apply for re-admission to the University.

Any LOA request completed by a student while allegations of misconduct are pending will have their LOA status revoked.

Students who have been suspended through the Resolution Center for Conduct and Conflict do not qualify for a LOA and must apply for re-admission to the University.

O. Final Exam Policy

Gonzaga University operates on a semester system, which requires 16 weeks of instruction. The schedule for the 16th week is established by the University Registrar and it consists of 2 hour meeting times, Tuesday through Friday. All classes, except labs, are expected to meet during the 16th week, whether or not a final examination is given. The Saturday through Monday preceding the 16th week of the semester are designated study/reading days.

Faculty and students are encouraged to work out conflicts related to final exams whenever possible (e.g., taking the final at a different time, during a different section of the same course, proctored by another instructor within the department, etc.). When this course of action is not possible, a student can petition the University Registrar to reschedule their exam. The criteria for moving a final exam are:

- 3 or more final exams scheduled on the same day.
- It will typically be the middle exam(s) that are moved.
- The deadline for submission for full consideration is the course Withdrawal Date.
- The makeup period for externally proctored exams is the last day of scheduled Final Exams

P. Advanced Placement Exam Policy

Recognizing that prospective students and their families would be served by a clearly articulated policy on the Advanced Placement (AP) examinations, the Policy and Planning Committee moves that the following AP policy be adopted at Gonzaga:

- 1) The University identifies relevant AP subject exams and informs the appropriate academic areas.

Grading Policies

A. Grading Procedures

A student's scholastic standing is based on the Grade Point Average (GPA) earned each semester. This is determined by the combined results of examinations, assignments, class attendance, and general evidence of regular and consistent participation. Due weight will be given to mastery of the subject and the ability to communicate clearly, effectively, and accurately in both oral and written form. There are several calculated GPA's including the term GPA, the cumulative GPA, and the upper division major GPA.

Specific information on the grading policy of any course is typically provided via the course syllabus. To indicate a student's quality of achievement in a given subject, final grades in the form of letters and plus/minus indicators are used by all instructors in the University's undergraduate programs. The letter grades A, A-, B+, B, B-, C+, C, C-, D+, D, F, V, and NS are assigned a "quality point value" for purposes of cumulative grade point average calculations, certification, and convenience in reporting.

The GPA is calculated by dividing the total quality points earned by the total credits graded.

The letter grades AU, I, IP, P, RD, S, and W do not count as credits graded and quality points are not awarded. Grades of "S" and "P" do not calculate into the GPA but count as credits earned.

A minimum cumulative and upper division major grade point average of 2.00 is required for completion of an undergraduate degree. Transfer credits accepted by Gonzaga may count toward degree completion; however, grades associated with transfer credits are not used in the calculation of the cumulative GPA at Gonzaga.

Letter Grades	Description	Quality Points
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3

Letter Grades	Description	Quality Points
C	Average	2.0
C-		1.7
D+	Poor	1.3
D		1.0
F	Failing	0.0 (computed in GPA)
	Grade awarded to students who complete the term and the course but fail to achieve course objectives.	
V	Failing	0.0 (computed in GPA)
	Grade awarded to students who have not officially dropped or withdrawn from a course and consequently have not met class attendance requirements or participation in the course through the end of a semester. The grade is given at the discretion of the professor. Students should not assume that professors will automatically initiate course drops/withdrawals for non-attendance.	
S (Satisfactory)	Passing grade of C or higher	(not computed in GPA)
P (Pass)	Passing grade of C or higher	(not computed in GPA)
NS (C- or lower)	Failing grade of C- or lower	(computed in GPA)
W (Withdrawal)		(not computed in GPA)
RD (Report Delayed)		(not computed in GPA)

AU - Audit grading option: The “AU” grade is assigned by the University Registrar’s Office and is not an option of the instructor. Students must register for this grade mode prior to the last published date to withdraw from a course. A complete description of this option is given in the Academic Policies section.

I - Incomplete: Given when a student with a legitimate reason as determined by the instructor, does not complete all the work for the course within the semester that they are registered. A provisional grade should be what the student would earn if no additional work is submitted. The faculty member may assign a provisional grade through ZAGWEB's Faculty Services tab and the "Email Provisional Grades" block which will initiate an automated email to the University Registrar's Office. The provisional grade received will be applied to a student's academic record thirty (30) calendar days into the following semester (summer sessions are not included) as outlined every semester on the Academic Calendar. Date extensions beyond this date may be requested and must be approved through the appropriate Deans' Office and the Office of the Provost. Forms for this action can be obtained from the University Registrar's Office.

If the instructor does not submit a Change of Grade form before the Academic Calendar's grade conversion date occurs or an approved date extension lapses, a provisional grade received will be recorded on the student's transcript. If no provisional grade has been provided, the "I" grade automatically becomes an "F" grade and is recorded on the transcript as an "I/F". Whenever a grade is eventually assigned, the "I" grade becomes part of the permanent record, e.g., "I/B", etc.

IP- In Progress: Assigned only for courses in Internships, Research, and Comprehensive Exams as well as courses that Deans recognize as eligible due to the nature of the course and the need for more than a semester to complete the work. An "IP" may remain for one calendar year. If a grade is not submitted within one year, an "IP" automatically becomes a "W" (official withdrawal). Requests for an extension beyond the deadline must be submitted by the instructor to the University Registrar's Office by completing the Extension form and obtaining signatures from the appropriate Dean and the Provost. Once the course has been completed and graded, the Change of Grade form needs to be processed and the grade will be entered on the student's academic record by the University Registrar's Office.

P - Pass: Courses may be taken on the Pass/Fail grading option by student request, not that of the instructor. Students select this option prior to the last published date to withdraw from the course, and may not revoke their decision after this date, by completing the appropriate paperwork in the University Registrar's Office. Letter grades assigned by instructors that are "C" or higher are converted to "P" grades at the end of the semester and grades below "C" are converted to "F" grades. The "P" grade does not calculate into the grade point average and the credits earned count toward the minimum number of credits required to graduate. The "F" (fail) grade affects the cumulative GPA as a standard "F" grade. **Courses taken under the Pass/Fail grading option do not satisfy any University Core, major, minor, or concentration requirement and can only be used as elective credit toward the overall credit total required for graduation.** A complete description of this option is given in the section of the catalog under the heading of "Pass/Fail Option."

RD - Report of Grade Delayed: If an instructor fails to assign a grade for a course and the grade entry is left blank, the University Registrar's Office will assign an "RD" grade and the "RD" will remain a part of the student record until the earned grade has been received by the University

Registrar's Office. To submit the grade, a Change of Grade must be processed through Zagweb and requires the Dean's approval.

S/NS - Satisfactory/Non-Satisfactory: Some courses are designated by academic departments for Satisfactory (S)/Non-Satisfactory (NS) grading only. This is not a grading option that students can choose. This grading option can only be determined by a department/school. The NS grade has the same effect as an "F" (Fail) on the grade point average. An "S" grade does not affect the GPA, and the credits earned are counted toward total credits needed to graduate. Courses graded using this grade mode will not be converted to a standard letter grade.

V - Unofficial Withdrawal: This grade has the same effect as "F" (Fail) on the grade point average (GPA) and is awarded by the instructor for excessive absences or failure to officially withdraw from a course.

W - Official Withdrawal: No penalties incurred. Not included in the attempted or earned GPA.

B. Grade Reports

Students receive their mid-semester grade reports electronically via their personal Zagweb accounts. Final grades are obtained by the student over Zagweb or through the University Registrar's Office.

C. Grade Point Averages

The Grade Point Average (GPA) is calculated by dividing the total quality points earned by the total graded credits. The letter grades AU, I, IP, P, RD, S, and W do not count as credits graded and quality points are not awarded. There are several calculated GPA's including the term GPA, cumulative GPA, and major GPA. A minimum cumulative and major grade point average of 2.00 is required for an undergraduate degree. Transfer credits are not used in calculating the Gonzaga University (institution) GPA.

D. Removal of Incompletes

When an incomplete grade (I) has been officially awarded and a provisional grade has been recorded by the instructor, the provisional grade will become final after 30 days have elapsed in the subsequent semester, unless the student fulfills the missing requirements and the instructor informs the University Registrar's Office on an official Change of Grade form that the course requirements have been fulfilled. Students must observe this 30-day grace period. If no provisional grade was submitted, the "I" grade becomes an "F" grade and is recorded on the transcript at this time. The "I" (Incomplete) grade remains on the transcript along with the earned grade.

E. Extension of Incomplete Grades

Students who are unable to meet the deadline for the removal of an incomplete grade for a serious and legitimate reason may petition the appropriate Dean for an extension of the deadline. If the Dean approves the petition, they will forward it to the Provost for approval.

F. Change of Grade

A change of grade requires a Change of Grade form submitted via Zagweb by the instructor and approved by the appropriate Dean of the school or college in which the course was offered. Grades are normally changed only because of calculation error or failure to take into account a significant amount of student work.

G. Repeating Courses for Improved Grade

In an effort to improve the GPA, an undergraduate student can repeat any course with another course of the same designation. The original course and grade will remain recorded on the student's transcript but will not be counted into the student's GPA. The cumulative credits and GPA will be adjusted to reflect the last credits and grade earned. Courses for which a student received a grade carrying no quality point value, such as W, (X prior to Fall 1996), and AU, may be re-taken in subsequent semesters; these grades are not included in the repeat course policy jurisdiction. Courses retaken as an independent study or directed reading do not qualify under this policy. Only courses re-taken at Gonzaga University qualify to improve the GPA under the University's Repeat Policy.

Academic departments are permitted to have more restrictive policies regarding repeating and/or withdrawing from courses. Students are advised to work carefully with their academic advisors and departments regarding these departmental policies.

H. Pass/Fail Grading Option

Courses may be taken on a pass or fail basis at the option of the student, not of the instructor. The Pass/Fail option by a student is different from the Satisfactory/Non Satisfactory option offered and graded for courses predetermined by academic departments.

1. A course with a "P" grade earned at the option of the student does not fulfill any course requirement for a Core, major, minor, or concentration requirement.
2. The credits earned for a "P" grade count toward the 128 minimum credits necessary for a degree.

3. A "P" (pass) grade will not affect the grade-point average; a fail will have the same effect as any "F" (fail) grade.
4. A student's level of performance to earn a "P" grade must correspond to the letter grade of "C" or better.
5. Undergraduate students wishing to exercise the Pass/Fail option must fill out the Pass/Fail Grade Option form in the University Registrar's Office prior to the last published date to Withdraw from courses and may not revoke their decision after this date.
6. Students are allowed to designate at most six (6) credits as Pass/Fail each Academic Year.
7. Any course failed ("F" grade) may not be repeated on a Pass/Fail basis.

Academic Citizenship

Academic Freedom of Students

Freedom of Expression: Students are free to take reasoned exception to the views offered in particular courses of study. They may, however, be required to know thoroughly the particulars set out by the instructor, but are free to reserve personal judgment as to the truth or falsity of what is presented. Knowledge and academic performance should be the norms by which students are graded.

Academic Integrity

Gonzaga University is committed to supporting and protecting academic integrity in all aspects of what we do. Our Academic Integrity Policy was developed with that commitment in mind. We encourage all students, faculty and staff to familiarize themselves with the policy.

Integrity Formation

The institution's mission statement expresses Gonzaga University's self-understanding through its Catholic, Jesuit and humanistic heritage and identity. These spiritual and intellectual traditions are expressed in the ideals of reflective and critical thought, ethical discernment, innovation, and commitment to social justice. The ideals imply a deeply held, rigorously maintained, and clearly articulated standard of academic integrity. This catalog presents that standard as understood by the Gonzaga University community of learners, teachers, and scholars and outlines the processes followed when these standards are violated. The Academic Integrity Policy (AIP) applies to all faculty and students (undergraduate and graduate) at Gonzaga, except for the Law School which has its own policy.

Resources for faculty and students can be found at www.gonzaga.edu/academicintegrity.

Grade Appeal

Students must maintain standards of academic performance set forth by the University if they are to receive the certificate of competence implied by course credits and degrees. The instructor is the usual and competent judge of these matters. But students must be protected against the rare case of unjust grading and evaluation. Allegations of unfair or prejudiced grading may be brought to the attention of and reviewed by the department Chair, by the appropriate Dean and, if necessary, by the Provost, whose decision is final.

Minimum/Maximum Course Loads

Full-Time Status: The normal course load of a regular full-time undergraduate student is sixteen (16) semester credits. For academic purposes, the minimum full-time course load is twelve (12) credits. The maximum load for students in good standing is eighteen (18) semester credits in one semester; for students on probation, the maximum is fifteen (15) credits or five courses.

Part-Time Status: Undergraduate students are considered to be enrolled at three-quarters time if enrolled in nine (9) to eleven (11) credits, half-time if enrolled in six (6) to eight (8) credits, and less than half time if enrolled in five (5) credits or less per semester.

Good Academic Standing, Unsatisfactory Academic Progress, Probation, and Academic Dismissal

To be in Good Academic Standing with the University, students must maintain a cumulative GPA of 2.00 or above as determined at the end of every term beginning with the completion of the student's second regular (non-summer) term at Gonzaga University.

Academic standing may affect a student's eligibility for financial aid, scholarships, and participation in extra- and co-curricular activities. Further information can be found in the Financial Aid section of this catalog.

Students may be put on Academic Probation whenever their term or cumulative GPA falls below 2.00. Students are expected to comply with all conditions of academic probation.

Students on academic probation, regardless of their academic standing, may be subject to academic dismissal from the University. A notation of "Academic Dismissal" will appear on transcripts. Dismissed students have an opportunity to appeal through the Center for Student Academic Success.

Gonzaga University transcripts reflect academic standing for every term the student is enrolled at Gonzaga. Students' academic standing is marked "Unsatisfactory Progress" whenever their term GPA falls below 2.00 with the exception of their final term.

Classroom Attendance Policy

For in-person or synchronous-remote classes, the default is to follow the policy below. Graduate programs may have their own policies; students should check with their program for specific requirements.

Students are presumed to have sufficient maturity to recognize the value and necessity of regularly attending class. While Gonzaga University considers consistent classroom attendance to be an integral part of Jesuit education, illness or other extenuating circumstances may prevent attendance.

Instructors should review the circumstances covered in this policy (including mandated exceptions) and apply absence restrictions at their discretion; however, no instructor may enforce an attendance policy that is more restrictive than the policy given below. Students should check the syllabus for each course to confirm the instructor's specific attendance policy, which should be clearly delineated.

Instructors' attendance policies must account for qualified students in the following situations:

- Students with documented short- or long-term disabilities. Students should contact the Disability Access Office for more information or case consultation.
- Students requesting accommodations due to religious holiday observance. Students should see the policy "Religious Accommodations for Students" and follow instructions provided by the Office of Inclusive Excellence.
- Students with documented military obligations.

Instructors are strongly encouraged to work with students in the following situations:

- Extenuating circumstances such as death of a family member, student hospitalization or significant injury or illness, jury duty summons, or other unforeseen, highly impactful emergencies.
- Participation in events as a representative of Gonzaga University.

In all class absence instances, students are responsible for communicating and/or providing required documentation and for following up with faculty as soon as reasonably possible. If needed, students should contact the Center of Cura Personalis (CCP) and/or the Center for Student Academic Success (CSAS) to assist in coordinating with faculty. Faculty may receive notification from CCP or CSAS when emergency situations prohibit a student from providing notification. If other situations arise regarding student absences with which faculty need further assistance, they should contact their chair, and if needed, the Office of the Provost.

Having considered the above accommodations, faculty may choose to limit student absences as follows:

Gonzaga's historical policy on absences stipulates that the maximum allowable absence is two class hours (100 minutes) for each class credit. For example, the maximum absence for a three-credit class is six class hours (300 minutes). Classes scheduled to meet for more than 50 minutes have more than one class hour for each meeting; for example, a class which meets for 75 minutes counts as 1.5 class hours for each scheduled meeting. The grade "V" may be given for excessive absences; this grade has the same effect as "F"

(Fail) and is included in the GPA calculation. Instructors who wish to exercise the option of assigning a “V” grade should notify the Office of the University Registrar as soon as they make this determination; the University Registrar’s Office will in turn notify the student.

Faculty are encouraged to work with students to ensure academic success both to satisfy the course objectives and meet the students’ needs due to absences. Students who believe that they have been treated unfairly regarding this policy may appeal to the appropriate Dean through which the course is offered.

Student Bereavement Policy

The Bereavement Policy is written with the Gonzaga University mission in mind, in that the university “intentionally develops the whole person - intellectually, spiritually, culturally, physically, and emotionally.” Furthermore, Gonzaga University is committed to the “dignity of the human person.” The purpose of the following Bereavement Policy is to support students who have suffered the death of a loved one. Students requesting leave under this policy will initiate the process by notifying the Center for Cura Personalis (CCP) as soon as possible. CCP will then communicate the request via email to the student’s current faculty, advisor and the Center for Student Academic Success which outlines the following policy:

Because bereavement may require multiple periodic absences, this policy supersedes the regular attendance policy; students under this policy will be excused from the V grade. Students are responsible to meet outcomes in their courses, which may entail completing alternative assignments. (For example, in cases where class attendance and participation are required, faculty might accept journal responses or other appropriate modes of engagement). Students are required to meet with faculty as soon as reasonably possible to establish a plan to meet course outcomes, and faculty are expected to be flexible in meeting outcomes. Note that program specific requirements or standards may preclude some flexibility.

Any work required to fulfill outcomes agreed upon by faculty and the bereaved student which is not completed by the end of the semester will result in a grade of I - Incomplete (the details of the Incomplete Grade under Grading Policies and Procedures). Utilization of this policy will take into account various religious traditions and practices; for more information, contact the Office of Inclusive Excellence.

Note: Students experiencing difficulties with this process or having remaining questions are encouraged to reach out to their academic Dean’s office.

University Recording Policy

Instructors are not required to record classes. However, class sessions and meetings may be recorded for the benefit of students who are unable to attend in-person or for other academic uses such as study aids, online instruction, hybrid class settings, or other types of distance education. This policy is not intended to affect any students' rights under both federal and state law regarding reasonable accommodations. Students requesting accommodations should coordinate with the Disability Access Office.

By remaining registered in a class at Gonzaga University, students agree that their recognizable and/or identifiable voice, name, image, or likeness may be recorded for educational purposes only. Student compliance with the terms of this policy is subject to the student code of conduct.

Definitions

Recording is defined as including, but not limited to, video, audio, screen shots, and photos. Class is defined as any **registered course or class** with students through any modality, in person or via any technology.

Instructor is defined as meaning **primary** instructor (of record) or professor.

1. Student Initiated Recordings

- a. Student Made Recordings
 - i. Video Recording – A student may not make a recording of a class, or any portion thereof.
 - ii. Screen Shots or Photos – A student may take a screen shot or photo of materials used in class only if the instructor gives explicit permission to do so. Screen shots or photos are only to be used for personal educational use by the student during their enrollment in the class.
 - iii. Audio Recording – A student must receive explicit permission from the instructor before making an audio recording of all or any portion of a class. This recording is only to be used for personal educational use by the student during their enrollment in the class.
- b. Distribution of Class Recording – A student may not distribute or share a recording of class, or any portion thereof, to anyone in any format. This includes any digital application or platform including all social media platforms.
- c. Accessibility of Recordings – Students who are given access to any form of class recording must delete the recordings no later than the end of the semester in which the recording was made.

2. Instructor Initiated Recordings

- a. Video, Screen Shots, Photos, and Audio Recording – Instructors are not required to make recordings. Any recording will be made solely at the instructor’s discretion. Only the instructor, or an instructor designee, may cause a class to be recorded, unless explicit permission is given by the instructor.
- b. **Distribution of Class Recording – An instructor may post a recording on an internal Learning Management System (LMS) or distribute through university email to students for educational purposes only. If posted to any website, access to the recording must be restricted so that only students who are registered for the class have access.**

Faculty, administrators, and staff, other than the instructor who made the recording, do not have permission to use or share class recordings for any purpose.

- c. Accessibility of Recordings – Instructors are required to make all recordings inaccessible to students within 30 days of the end of the semester, except as necessary to assist students enrolled in that class to complete outstanding work.
- d. University Approved Systems and Software – A university approved learning management system, or university email account, must be used for uploading recordings, storing recordings, or disseminating recordings to students enrolled in the class for educational purposes. University approved software includes those provided to employees by Gonzaga Information Technology Services (ITS) and secure, third-party providers (such as Blackboard or Canvas).

3. Exceptions

- a. Instructors may only reuse recordings that do not show any recognizable and/or identifiable voice, name, image, or likeness of students. This includes audio and video recordings, reviews of assignments, research synopses, how-to guides, instructional videos, and any other class related materials.

Faculty Initiated Drop Policy

Students should contact professors or academic departments prior to the first class session if they plan to be absent. If a student misses the first class meeting without notifying the instructor or academic department, the student may be dropped from the course at the discretion of the instructor and provided that the course is closed. Professors will report absences to the Dean, who, upon approval, will notify the University Registrar’s Office to drop students from course sections. For further information about unexcused absences, please refer to Gonzaga’s “Class Attendance Policy.”

Enrollment Verifications

The University Registrar's Office periodically transmits enrollment data to the National Student Clearinghouse. This data is used to provide enrollment verification of students that can be accessed by third party entities, including lenders of federal and state loans. Students may print out their verification for insurance providers by accessing the National Student Clearinghouse link through Zagweb.

The University Registrar's Office, upon timely notice, will also provide to any student a letter verifying their enrollment status to any designated agency. This includes Letters of Non-Attendance for students who need to prove they do not attend Gonzaga University. If a third party requires the school seal be applied to an enrollment verification document, they must make this request directly from the University Registrar's Office.

Certain student information is protected under the Family Educational Rights and Protection Act (FERPA) of 1974 and requires additional approval from the student before being released to a third party. Once a student reaches the age of maturity (18 years old) or begins attending a post-secondary institution, their records are protected by FERPA. In the event that this information is needed, the University Registrar's Office will require a release of information signed by the student be submitted prior to distribution of any verifications.

University Honors

Academic Recognition

An undergraduate student whose grade-point average for a semester is 3.50 and less than 3.85 will be placed on the Dean's List. An undergraduate student whose grade point average for a semester is 3.85 through 4.00 will be placed on the President's List. Students must be enrolled in 12 or more academic credits to be eligible for the above lists and courses in which the department has predetermined with the Satisfactory/Non Satisfactory (S/NS) grading option will count in the 12 credits.

Graduation Honors

The academic achievements of graduating students at the baccalaureate level are formally recognized at the public Commencement ceremony, appear in published lists of graduates, and are recorded on transcripts. Only Gonzaga University credits are used in computing graduation honors. To calculate a student's achieved honors designation, grade point averages are truncated two decimal spaces and are not rounded up.

Students who have earned 64 Gonzaga University credits are graduated Cum Laude with a cumulative grade-point average equal to 3.50 and less than 3.70, Magna Cum Laude equal to 3.70 and less than 3.90, Summa Cum Laude of 3.90 or higher. For recognition purposes at Commencement, eligibility for these honors is determined based on the cumulative GPA as of the end of the fall semester.

Students who have earned at least 48, but less than 64, Gonzaga University credits are graduated 'With Distinction' if the cumulative grade-point average is 3.50 or higher.

University Leadership Programs

Hogan Entrepreneurial Leadership Program: The Hogan Entrepreneurial Leadership Program is a three-year undergraduate minor founded on the Jesuit educational philosophy of educating the whole person. Its purpose is to prepare students to create new ventures that make a positive difference in society. This student-centered program is designed for promising individuals from any major who demonstrate academic excellence, leadership, creativity, and a commitment to serve others.

Comprehensive Leadership Program: The Comprehensive Leadership Program (CLP) at Gonzaga University is a formal, for-credit academic leadership program intended to complement students' academic goals through theoretical study and experiential

learning culminating in the Minor in Leadership Studies. The program was inaugurated in 2002 in an effort to support the University mission of creating leaders, in a variety of fields, dedicated to the common good. The CLP offers a unique scholarly environment for students from every major, and provides transformational and reflective experiences focused on three dimensions: self-awareness, relationship with others, and community action for the common good. Undergraduates take the Minor in Leadership Studies in conjunction with their chosen major in any academic field, including business, engineering, nursing, computer science, biology, chemistry, education and the liberal arts. Admission to the Comprehensive Leadership Program (CLP) is competitive and the application takes place during the fall of a student's first year, and is based on demonstrated leadership and desire to study leadership through written essays, individual interviews, group interviews, and student's grade point average. The CLP prepares students for real-life leadership as it strives to produce graduates with a deep and holistic understanding of leadership, the meaning of moral character, and an ethic of care and service.

University Honor Societies

Joining an Academic Honor Society at Gonzaga is an esteemed opportunity for students who excel academically, demonstrate exceptional leadership abilities, a commitment to service, and embody strong character traits. These societies serve as communities of like-minded individuals who share a passion for learning and personal development. Membership in a University-Recognized Honor Society enhances a student's academic journey, provides networking opportunities, and can leave a lasting impact on academic and professional pursuits. Honor Society membership is documented in the student's graduating year commencement booklet and on their official transcripts.

Alpha Sigma Lambda: Devoted to advancement of scholarship and to the recognition of non-traditional students continuing their higher education. For the non-traditional student, the society stands as an inspiration for continued scholastic growth, a builder of pride through recognition, and an incentive to associate similarly motivated students. Qualifying candidates for Alpha Sigma Lambda are academically in the top ten percent of the non-traditional student population (undergraduate 24 plus years of age), attending Gonzaga University, and who have completed a minimum of 24 credits at Gonzaga University, with a G.P.A of 3.40 or higher.

Alpha Sigma Nu: The national Jesuit honor society for third year and fourth year men and women students of outstanding academic achievement, service, and loyalty to the ideals of Jesuit education. Membership also available for graduate level students.

Beta Alpha Psi: An honorary organization for financial information students and professionals. The primary objective of Beta Alpha Psi is to encourage and give recognition to scholastic and professional excellence in the business information field. Members of Beta Alpha Psi have significant opportunities for service, networking, and personal/professional development. Membership is open to students in accounting, finance and information systems

who meet the academic and service requirements. Membership also available for graduate level students. For more information, see <https://www.gonzaga.edu/school-of-business-administration/undergraduate-programs/undergraduate/accounting/beta-alpha-psi>

Beta Gamma Sigma: The national business honor society. Membership is for the top 10% of the junior and senior-year undergraduate business majors, respectively, and the top 20% of the Master of Business Administration class.

Chi Alpha Sigma: A nonprofit organization established to recognize college student-athletes who excel both on and off the field of competition.

Chi Sigma Iota: CSI is an international honor society that values academic and professional excellence in counseling. We promote a strong professional identity through members (professional counselors, counselor educators, and students) who contribute to the realization of a healthy society by fostering wellness and human dignity.

Kappa Delta Pi: The national education honor society where membership is limited to third year and fourth year students enrolled in one of the phases of the education program of the School of Education, and is based on academic and professional abilities. Membership also available for graduate level students.

Lambda Pi Eta: The national communication honor society for outstanding students in any of the communication arts. Membership in Iota Rho, our local chapter, is limited to third and fourth-year students who have achieved high academic achievement, leadership, and service, with a demonstrated commitment to the discipline of communication. Membership also available for graduate level students.

The National Honor Society for Dance Arts honors students of outstanding artistic merit, leadership, and academic accomplishments for those minoring in the art of dance. Membership is limited to senior dance minors who have maintained a 3.5 GPA or higher in academic dance studies and who demonstrate a commitment to the discipline of dance.

The National Honor Society for Collegiate Scholars: The National Society of Collegiate Scholars (NSCS) is an honors organization that recognizes and elevates high achievers. NSCS provides career and graduate school connections, leadership and service opportunities and gives out a million dollars in scholarships annually. NSCS members are deeply committed to scholarship, leadership, and service and as a result, are impacting their campus and local communities every day.

Omicron Delta Epsilon: This organization is the international honor society in economics. Eligibility requirements for Gonzaga's Epsilon chapter are the completion of 12 credits of economics courses with a minimum 3.2 average in those courses and a minimum 3.0 GPA in all college courses.

Phi Alpha Theta: Founded in 1921, Phi Alpha Theta is the national honor society in history, whose mission is to promote the study of history through the encouragement of research, good teaching, publication and the exchange of learning and ideas among historians. Since the foundation of the Xi-Gamma Chapter of Phi Alpha Theta at Gonzaga University, hundreds of Gonzaga's top students in history have joined the 350,000 members in 900 chapters across the U.S.

Phi Beta Kappa: Founded in 1776 at the College of William and Mary. Its mission is to celebrate and advocate for excellence in the liberal arts and sciences. Its campus chapters invite for induction the most outstanding arts and sciences students at America's leading colleges and universities. Phi Beta Kappa members include 17 U.S. Presidents, 42 U.S. Supreme Court Justices and more than 150 Nobel Laureates.

Phi Sigma Iota: Phi Sigma Iota recognizes outstanding accomplishment in the study or teaching of any of the academic fields related to foreign language, literature, or culture. These fields include not only modern foreign languages, but also other fields with a significant foreign language component.

Phi Sigma Tau: The national honor society in philosophy founded in 1930 which recognizes philosophy students for their academic achievement. Now an international honor society, it is open to all Gonzaga students who have completed a minimum of twelve philosophy credits and have met particular grade requirements.

Pi Mu Epsilon: Incorporated at Syracuse University in 1914, Pi Mu Epsilon is a national mathematics honor society dedicated to the promotion and recognition of scholarly activity in the mathematical sciences. WA Epsilon, the local chapter at Gonzaga University is one of over 380 chapters throughout the country. Established in 1968, WA Epsilon has been an active chapter since 2014. Events are held throughout the academic year, often in conjunction with other activities in the mathematics department. Students are invited to join WA Epsilon each spring if they satisfy the eligibility requirements. An induction ceremony is held in April of each year.

Pi Sigma Alpha: The national honor society for students majoring in political science at the undergraduate and graduate levels. Gonzaga's Chapter, Alpha Beta Xi is open to students in the junior and senior year. Membership is attained through academic achievement at the highest level in both the discipline and in overall academic work.

Psi Chi: The national honor society in psychology, founded in 1929 for the purposes of encouraging and maintaining excellence in scholarship, and advancing the science of psychology.

Sigma Tau Delta: The international English honor society. A member of the Association of College Honor Societies, it was founded in 1924 at Dakota Wesleyan University. With over 750 active chapters located in Europe, the Caribbean, and the United States, there are more than

1,000 faculty sponsors, and approximately 8,500 members inducted annually. Sigma Tau Delta's central purpose is to confer distinction upon students of the English language and literature in undergraduate, graduate, and professional studies.

Sigma Theta Tau International (STTI): This organization is one of the largest and most prestigious nursing organizations in the world. The name of the organization was chosen from the Greek words meaning love, courage, and honor. STTI's mission is to "support the learning, knowledge and professional development of nurses committed to making a difference in health worldwide." As the international honor society of nursing, it recognizes superior achievement, fosters high professional standards and the development of leadership, encourages creative work, and seeks to strengthen commitment to the ideals and purposes of the profession. Membership also available for graduate level students.

Tau Beta Pi: The national honor society for undergraduate engineering (all disciplines) majors of outstanding academic achievement, leadership, and community service.

Theta Alpha Kappa: Established in 1976 in New York for the purpose of recognizing the academic achievements of religion and theology students, Theta Alpha Kappa has grown to more than two hundred chapters nationally in four-year educational institutions ranging from small religiously affiliated colleges to large public research institutions. It is the only national honor society dedicated to recognizing academic excellence in baccalaureate and post-baccalaureate students and in scholars in the fields of religious studies and theology. It publishes the Journal of Theta Alpha Kappa featuring student scholarship, in which former Gonzaga students have been published.

Upsilon Pi Epsilon: Upsilon Pi Epsilon is the International Honor Society for the computing and information sciences. The mission of Upsilon Pi Epsilon is to recognize academic excellence in computer science and engineering at both the undergraduate and graduate levels, and is endorsed by the Association for Computing Machinery and the IEEE Computer Society.

University Academic Awards

Each spring the faculties of the University meet in convocation to recognize the academic achievements of individual members of the University community. Among others, these awards include:

The Alumni Association Award: The gift of the Gonzaga Alumni Association to a member of the graduating class who has shown excellence in his or her field of study and involvement in University and student affairs, and who has created an impact on the community of Spokane.

The William A. Garrigan, S.J., Award: The gift of the University in memory of Father Garrigan to the member of the graduating class who has achieved the highest cumulative grade point average for four years of undergraduate work at Gonzaga.

Fourth Year, Third Year, Second Year, and First Year Awards: Each one of the first year, second year, third year, and fourth year awards will be granted to the undergraduate student who had the highest GPA calculated for the fall and spring semesters, and who was enrolled for 30 or more academic credits in the academic year. If there is a tie, the award will be granted to the student who earned the highest (total) cumulative GPA. Only Gonzaga grades are considered in the GPA. Courses predetermined or mandated by academic departments as Satisfactory/Non-Satisfactory (S/NS) grading only will be counted in the 30 credits.

University Confidentiality of Records Policy

The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the Buckley Amendment, is a federal law regarding the privacy of student education records and the obligations of the institution, primarily in the areas of release of records and access provided to these records.

The intent of the legislation is to protect the rights of students, and to ensure the privacy and accuracy of education records. The Act applies to all institutions that are recipients of federal aid administered by the Secretary of Education.

Education Records

Any record maintained by Gonzaga that contains information that is personally identifiable to a student (in whatever format or medium) is considered to be an education record with some narrowly defined exceptions to include the following:

- Sole possession records or private notes held by a school official that are not accessible or released to other personnel.
- Law enforcement or campus security records created and maintained by a law enforcement agency for a law enforcement purpose.
- Employment records of an individual who is employed by the institution unless the employment is contingent on student status.
- Medical/psychological treatment records.
- Alumni records created after the student has graduated or left the institution.

Student Rights

At Gonzaga, FERPA rights belong to the student who is in attendance beginning with their first day of class regardless of age. The definition of a student applies to all students including continuing education students, students auditing a class, distance education students, and former students.

FERPA affords students the following basic rights in respect to their education record:

- Right to inspect and review their education record maintained by the school.
- Right to request an amendment to the record that the student believes are inaccurate or misleading.

- Right to consent to disclosure of personally identifiable information.
- Right to file a complaint with the U.S. Department of Education concerning alleged failures to comply with the requirements of FERPA.

Challenging the Content of Education Records

A student who wishes to challenge information in their records must submit, in writing, a request for a hearing to the appropriate office maintaining the record, listing the specific information in question and the reasons for the challenge.

Hearings will be conducted by a university official who has no direct interest in the outcome of the hearing.

Students shall be afforded a full and fair opportunity to present evidence relevant to the reasons for the challenge.

The hearing officer will render a decision, in writing, noting the reason and summarizing all evidence presented within a reasonable time frame after the challenge is filed.

Should the hearing be in favor of the student, the record shall be amended accordingly. Should the request be denied, an appeal may be made in writing, and submitted to the University Registrar within 10 days of the student's notification of the decision of the hearing officer. The appeal shall be heard by an appeals board of three senior University officials and a decision rendered, in writing, within a reasonable period of time.

Parent Rights

Once a student reaches the age of 18 or begins their attendance at a postsecondary institution regardless of age, FERPA rights transfer from the parent to the student. Parents can obtain information from their child's education record if the student has submitted a signed consent form to the University Registrar's Office or if proof of dependency status has been provided through the receipt of a copy of the most recent income tax statement by the Office of the University Registrar's Office.

School Official

A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a student serving on an official committee, such as a disciplinary or

grievance committee, or assisting another school official in performing his or her tasks. Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

Legitimate Educational Interest

A legitimate education interest exists when a school official requires access to a student's record in order to perform their instructional, supervisory, advisory, or administrative duties. FERPA allows universities to give school officials who have legitimate educational interest access to education records without the written and signed consent of the student.

Directory Information

Directory information are those data items that are generally not considered harmful or an invasion of privacy if disclosed. Each institution establishes what it considers to be directory information. Gonzaga University does not authorize distribution of listings of student names with addresses and/or telephone numbers to any entity outside of the University unless it is required by law or otherwise allowed by FERPA. Gonzaga has deemed the following information as directory information:

- Student name
- Addresses & phone numbers
- E-mail addresses
- Place of birth
- Major field of study
- Dates of attendance
- Full or part time enrollment status
- Year in school (class)
- Degree(s) received and date(s) conferred
- Scholastic honors and awards received
- Other educational institutions attended
- Visual images (through photographs or videos)
- Height and weight of athletic team members

Directory information may be published in a student directory or event program and released to the media and to the public for enrolled students.

Every student is given the opportunity to have directory information suppressed from public release through their signed consent on a form available from the University Registrar's Office.

With this agreement, the information will not be disclosed unless authorized under the Family Educational Rights and Privacy Act of 1974 (FERPA).

Annual Notification

Gonzaga notifies eligible students annually of their rights under FERPA. Gonzaga provides this notification to each student via e-mail and through publications such as the University catalogs.

FERPA Administration

Office of the Registrar
College Hall 229, 502 E Boone Ave
Spokane, WA 99258-0083
(509) 313-6592 Direct
(509) 313-5828 Fax
(509) 793-1723 (Toll-Free)
registrar@gonzaga.edu
<http://www.gonzaga.edu/registrar>

AACRAO

<https://www.aacrao.org/resources/compliance/ferpa>
Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-8520
<https://www2.ed.gov/policy/gen/guid/fpco/index.html>

College of Arts and Sciences

Dean: Jacqueline Van Hoomisen

Associate Deans: Molly Kretchmar-Hendricks, Jonathan Rossing, Stacy Taninchev

The College of Arts and Sciences develops people for others, ready to face the intellectual, vocational, and spiritual challenges of today and tomorrow.

The departments and programs that make up the College offer students majors, minors and concentrations in liberal arts, humanities, and specialized fields, preparing them for immediate careers or for further studies. The College also is primarily responsible for delivering courses in the University Core curriculum, the center of Gonzaga's humanistic, Jesuit, Catholic education. For students pursuing Arts and Sciences majors, the College also has a secondary language requirement.

Degree Programs in the College of Arts and Sciences

Bachelor of Arts, General: This is the regular B.A. degree offered by the College; it also is available with a teaching option in some majors.

Bachelor of Science, General: This is the regular B.S. degree offered by the College.

Bachelor of Arts, Honors: This degree is awarded to students who pursue their basic undergraduate education under the direction of the Honors Program. A specific core Honors curriculum, accomplished primarily through colloquia and seminars, satisfies University Core requirements for those students who obtain this degree. The degree is available in all majors within the College that offer the B.A.

Bachelor of Science, Honors: This degree is awarded to students who complete the requirements for a major in a field which offers the B.S. and who pursue their basic undergraduate education under the direction of the Honors Program; a specific Honors curriculum satisfies the University Core requirements for those students who obtain this degree.

3+3 BA/BS/J.D.: This program consists of three years in an approved undergraduate major¹ and entrance to the Law School in the fourth year, resulting in a B.A./B.S. and a J.D. from the Gonzaga University School of Law in six years rather than seven. The 3+3 program requires successful completion of at least 100 undergraduate credits from Gonzaga University by the end of the junior year (six semesters), including all College of Arts and Sciences undergraduate degree requirements for any major, minor, and

concentration pursued by the student as well as all university core requirements. The final 28 undergraduate elective credits required under the 128 credit undergraduate degree policy will be fulfilled using completed first-year law school courses. Students complete the application to the Gonzaga School of Law in their fifth semester. Because of the pre-planning this pathway involves, interested students should contact a pre-law advisor in Career and Professional Services during their first semester.

¹Some majors are credit-intensive and/or highly sequenced. Students in those majors may not be able to complete the major in three years and would not be able to participate in this program.

College of Arts and Sciences Degree Requirements

In addition to the general degree requirements of the University, including the University Core curriculum, students earning all Bachelor's degrees offered by the College of Arts and Sciences must complete the following requirements:

1. Completion of the requirements for a major within the College.
2. Completion of a senior thesis, comprehensive exam, capstone, or other culminating experience designed by the major department.
3. Language Requirement: Competency in a second language (classical or modern) at the intermediate level (demonstrated by completion of a course numbered 201 or higher) is required for students continuing in the study of a language. Students beginning study in a language they have not previously studied can fulfill the requirement by completing one year at the beginning level (courses numbered 101-102). The languages regularly taught at Gonzaga are Arabic, American Sign Language (ASL), Filipino, French, German, Greek, Italian, Japanese, Latin, and Spanish. International students from non-English speaking countries whose primary and/or secondary education was in a language other than English, the CAS language requirement is automatically fulfilled since the proficiency threshold for admissions is advanced proficiency, exceeding the requirement of the language requirement.

Please note: Every degree requires a minimum of 128 completed semester credits. No core, major, minor, or concentration courses may be taken under the Pass/Fail option.

Arts and Sciences Common Curriculum

Table of Credits for Degrees, Majors and Minors

Field	Degree	Major	Minor
Applied Mathematics	BS	57-77	24
Actuarial Science Concentration		69	n.a.
Biology Concentration		68	n.a.
Biology + Statistics Concentration		75	n.a.
Biochemistry Concentration		67	n.a.
Biochemistry + Statistics Concentration		76	n.a.
Chemistry Concentration		67	n.a.
Chemistry + Statistics Concentration		76	n.a.
Computer Science Concentration		61	n.a.
Economics Concentration		64-65	n.a.
Economics + Statistics Concentration		73-74	n.a.
Environmental Science Concentration		68	n.a.
Environmental Science + Statistics Concentration		77	n.a.
Physics Concentration		65	n.a.
Physics + Statistics Concentration		74	n.a.
Statistics Concentration		65-66	n.a.
Art	BFA	53	
Art	BA	39	24
Art History Concentration (for Art majors only)		48	n.a.
Art History (<i>for non-Art majors</i>)		n.a.	24
Biology	BA	39	28
Research Concentration		47-48	n.a.
Biology	BS	64	28
Ecology & Conservation Biology Concentration		63-65	
Evolution & Integrative Biology Concentration		59-64	
Micro, Molecular, & Cellular		65-66	
Physiology		62-63	
Research Concentration		71-72	n.a.
Biochemistry	BS	70-71	n.a.
(ACS approved option)		73-74	n.a.
Broadcast and Electronic Media Studies	BA	36	21
Catholic Studies		n.a.	21
Chemistry	BA	55	32-37
(ACS approved option)	BS	64-65	n.a.
Classical Civilizations	BA	36	23
Communication Studies	BA	37	21
Conducting (for Music, Music Ed majors only)		n.a.	20
Criminology	BA	33	18

Field	Degree	Major	Minor
Critical Race and Ethnic Studies		n.a.	21
Dance	BA		20
Dance Pedagogy Concentration		35	
Performance Concentration		35	
English (concentration required)	BA		21
Writing Concentration		39	n.a.
Literature Concentration		39	n.a.
Environmental Science	BS	63-64	n.a.
Environmental Studies	BA	39-41	19-21
Film Studies		n.a.	21
French*	BA	19-35	12-28
German*		n.a.	12-28
Health Equity			18
History	BA	33	18
Asian History		n.a.	18
Latin American History		n.a.	18
Race & Ethnic Communities		n.a.	18
Interdisciplinary Arts		n.a.	20-25
International Studies*	BA	42-58	18-23
Italian*		n.a.	12-26
Italian Studies*	BA	22-36	12-26
Journalism	BA	39	19
Mathematics	BA	31	24
Statistics Concentration		40	n.a.
Mathematics	BS	40	24
Statistics Concentration		49	n.a.
Music	BA	46-55	20
Composition Concentration		53	n.a.
General studies Concentration		46	n.a.
Jazz Concentration		54	
Performance concentration		50	n.a.
Sacred Music concentration		55	n.a.
Minor in Conducting (Music or Music Ed majors only)			20
Music Education (<i>concentration required</i>)	BA	65-66	n.a.
Choral and General concentration		66	
Instrumental and General concentration		66	
Native American Studies		n.a.	21
Neuroscience	BS	61	n.a.
Philosophy	BA	36	21
Kossel Concentration		44	n.a.
Physics	BA	52	n.a.
BS degree concentration <i>required</i>	BS	61-67	27
Applied Physics concentration		64	

Field	Degree	Major	Minor
Astrophysics concentration		63	
Fundamental Physics concentration		64	
Material Physics Concentration		62	
Medical Physics Concentration		61	
Political Science (<i>concentration required</i>)	BA	54	18
American Politics			
Comparative Politics			
International Relations			
Psychology	BA	33	21
Research Concentration		36	
Public Relations	BA	39	18
Religious Studies	BA	36	18
Sociology	BA	33	18
Solidarity and Social Justice		n.a.	18
Spanish*	BA	22-38	12-28
Theatre (<i>concentration required</i>)	BA		20-21
Performance Concentration		44-49	
Design, Technology, & Management		44-49	19-21
Visual Literacy		n.a.	18-19
Women, Gender, and Sexuality Studies		33	21
Writing		n.a.	21

Note: *Number of credits required is dependent on non-English language competency.

Teacher Certification

In order to obtain a teaching certificate, students need to complete a degree with an appropriate major and also complete professional educational requirements. Since most future teachers obtain their degree in the College of Arts and Sciences, they have an academic advisor in that college. In addition, they need an advisor from the Teacher Education Department, who is usually assigned to them when they register for EDTE 101L.

Art

Chairperson: Mat Rude

Leo Kreielsheimer Professor of Fine Arts: M. McCormick

Professors: M. Farrell (Emerita), T. Gieber (Emeritus), S. Parker, M. Rude

Associate Professor: M. McCormick

Assistant Professors: R. Gil Zambrano, J. Seo

Gonzaga's Art Department offers students the opportunity to investigate a variety of visual experiences through a study of both the studio arts and art history.

The department offers two degrees with one major and two minors:

Bachelor of Arts, Art major

Bachelor of Fine Arts, Art major

Minor in Art

Minor in Art History

The Bachelor of Fine Arts (B.F.A.) in Art is a professional degree in the fine arts intended to provide art majors with greater technical expertise and conceptual proficiency in studio art. It gives students a much more competitive edge when entering the job market for positions in design or media production, applying to graduate programs in the visual arts, or pursuing a career as a practicing fine artist.

The Bachelor of Arts (B.A.) in Art provides students a comprehensive education in the visual arts and art history. It requires fewer credits in art than the B.F.A. and thus allows greater flexibility for students to pursue additional academic interests or a second major in another area of study.

The department is located in the Jundt Art Center. The Jundt Art Center maintains studios in ceramics, design, drawing, painting, and printmaking. Courses in photography and filmmaking are offered in the Journalism/Broadcast and Electronic Media Studies Building. A theatre-style lecture hall in the Jundt Art Center provides space for art history, visiting artist lectures, and video/film presentations. Some of the department's courses are offered at Gonzaga-in-Florence.

The Jundt Art Museum provides storage and exhibition areas for Gonzaga University's permanent art collection, plus changing exhibits of local, regional, national, and international artwork. Students and faculty regularly take advantage of the many opportunities to study and learn directly from artworks in the Jundt Art Museum.

The Gonzaga University Urban Arts Center (GUUAC) in downtown Spokane provides exhibit space for Gonzaga art students and faculty, local artists, and visiting artists from outside the

region. The GUUAC brings the experience of contemporary art directly to the broader Spokane community.

B.A. Major in Art: 39 Credits

Lower Division

VART 101 Drawing I 3 credits

One of the following two courses: 3 credits

VART 112 Digital Art Foundations

VART 230 3-D Design

One of the following two courses: 3 credits

VART 140 Ceramics: Hand Building

VART 141 Ceramics 1

VART 170 Photographic Art 3 credits

VART 190 Art Survey: Prehistoric-Medieval 3 credits

VART 191 Art Survey: Renaissance-Modern 3 credits

VART 221 Oil Painting 3 credits

Upper Division

One of the following two courses: 4 credits

VART 350 Beginning Printmaking

VART 351 Beginning Screen Printing

VART 385 Figure Drawing I 4 credits

One the following five Art History courses: (non-Art History Concentration Students Only) 3 credits

VART 394 Special Topics in Art History

VART 395 Art in the 19th Century

VART 396 Art in the 20th Century

VART 407/WGST 350 Women Artists

VART 408 History of Photography

VART Electives (studio art) 4 credits

VART 493 Studio Practice Course 1 credit

VART 499 Professional Practice Course 2 credits

Art History Concentration: 15 credits

(for Art Majors only)

VART 395 Art in the 19th Century 3 credits

VART 396 Art in the 20th Century 3 credits

Any three of the following eight electives: ** 9 credits

VART 394 Special Topics in Art History

VART 403/HIST 302 The Ancient City

VART 404/HIST 307 The Archaeology of Ancient Greece

VART 405/HIST 308 The Archaeology of Ancient Rome

VART 406/HIST 366 American Culture and Ideas
 VART 407/WGST 350 Women Artists
 VART 408 History of Photography
 VART 498 Independent Research

B.F.A. Major in Art: 53 credits

VART 101 Drawing I	3 credits
VART 112 Digital Art Foundations	3 credits
One of the following two courses:	3 credits
VART 140 Ceramics: Hand Building	
VART 141 Ceramics: Ceramics I	
VART 170 Photographic Art	3 credits
One of the following two courses:	3 credits
VART 190 Art Survey: Prehistoric-Medieval	
VART 191 Art Survey: Renaissance-Modern	
VART 201 Drawing 2	3 credits
VART 221 Oil Painting	3 credits
VART 230 3-D Design	3 credits
One of the following two courses:	4 credits
VART 350 Beginning Printmaking	
VART 351 Beginning Screen Printing	
VART 385 Figure Drawing 1	4 credits
Three additional 300-level or above studio art courses	12 credits
Two upper division art history courses	6 credits
VART 493 Studio Practice Course	1 credit
VART 494 BFA Solo/Two-Person Exhibit	0 credit
VART 499 Professional Practice Course	2 credits

Minor in Art: 24 credits

Lower Division

VART 101 Drawing I	3 credits
One of the following three courses:	3 credits
VART 112 Digital Art Foundations	
VART 170 Photographic Art	
VART 230 3-D Design	
One lower division VART Elective	3 credits

Upper Division

One of the following five courses:	3 credits
VART 394 Special Topics in Art History	
VART 395 Art in the 19th Century	
VART 396 Art in the 20th Century	

VART 407/WGST 350 Women Artists	
VART 408 History of Photography	
VART Studio Art Electives *	12 credits

Minor in Art History: 24 credits

(for non-Art Majors; Art Majors may declare a concentration in Art History)

Lower Division

VART 101 Drawing I	3 credits
One of the following three studio courses:	3 credits
VART 112 Digital Art Foundations	
VART 141 Ceramics I	
VART 221 Oil Painting	
VART 190 Art Survey: Prehistoric-Medieval	3 credits
VART 191 Art Survey: Renaissance-Modern	3 credits

Upper Division

VART 395 Art in the 19th Century	3 credits
VART 396 Art in the 20th Century	3 credits
Any two of the following electives: **	6 credits

- VART 394 Special Topics in Art History
- VART 403/HIST 302 The Ancient City
- VART 404/HIST 307 The Archaeology of Ancient Greece
- VART 405/HIST 308 The Archaeology of Ancient Rome
- VART 406/HIST 366 American Culture and Ideas
- VART 407/WGST 350 Women Artists
- VART 408 History of Photography
- VART 498 Independent Research

**A maximum of two upper-division art history courses in study abroad programs may be substituted for the upper-division elective requirements, with prior approval from Department Chair.

The Visual Literacy minor focuses on an interdisciplinary approach to studying photographic and video arts, photojournalism, and documentary film. The minor gives students models for thinking critically about the interpretation and impact of images in society and artistic creation, and the evolving role of video in online news and social media. The curriculum integrates experiential learning with the theories and ethics of artistic and journalistic visual creation.

Minor in Visual Literacy: 18-21 credits

Lower Division

INMD 101Media Literacy

3 credits

Two of the following five options:

6 credits

VART 112Digital Art Foundations⁽¹⁾

VART 170Photographic Art⁽¹⁾

JOUR 270Photojournalism

VART 272Intro to Filmmaking

JOUR 280Design and Editing

Upper Division

Three of the following six options:

9-12 credits

BRCO 320Image Communications

VART 371Art Fusion

JOUR 374Documentary History and Analysis

VART 408History of Photography

JOUR 470Documentary Filmmaking

VART 472Creative Filmmaking

See the Undergraduate Catalog department sections for individual course descriptions.

(1) Students majoring or minoring in Journalism must take VART 170 or VART 112.

*Note: Students using JOUR 470 and/or BRCO 320 to satisfy the Visual Literacy minor requirements, may not also use the courses for an upper-division BRCO, JOUR or PRLS elective course required for Broadcast & Electronic Media Studies, Journalism, or Public Relations majors and minors.

Courses:

VART 101 Drawing I

credit(s): 3

The graphic representation of visual reality in a variety of media; emphasis is directed toward an understanding of observation, form, line, value, composition, and space. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

VART 112 Digital Art Foundations credit(s): 3

An introduction to basic design and digital art, using the computer as a primary tool and Adobe Photoshop, as well as drawing and painting materials. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

VART 115 Art Appreciation credit(s): 3

An introduction to the visual arts of the Western world. The basic premise of the course stems from a conviction that painting, sculpture, and architecture reflect the times and places that produced them. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

VART 121 Painting Methods and Materials credit(s): 3

An introduction to a variety of methods and mediums that are used in basic painting. Students will learn how to prepare different surfaces for painting, including paper, panel and canvas. Intended for the non-art major/minor. Fall and Spring. Fulfills the following degree requirement(s): Core: Fine Arts and Design.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

VART 140 Ceramics: Hand Building credit(s): 3

This course will focus on hand-building techniques such as coiling and slab construction as well as an introduction to the potter's wheel.

VART 141 Ceramics I credit(s): 3

A basic experience with clay. Emphasis on hand building techniques with an introduction to wheel forming. Secondary emphasis on developing fundamentals of clay and glaze technology. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must not be the following Class(es): Junior, Senior

VART 170 Photographic Art credit(s): 3

A survey of the role of photography in media and art as well as contemporary human experience. The course emphasizes creative control of digital cameras and an understanding of the principles of photography in creating images with technical and high aesthetic value. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D, Core: Fine Arts and Design

Equivalent(s): JOUR 170, SOSJ 170

Restriction(s):

Must be the following Class(es): Freshman, Junior, Sophomore

VART 180 Special Topics credit(s): 1-3

Course repeatable for 9 credit.

Topics to be determined by instructor.

VART 190 Art Survey: Prehistoric-Medieval credit(s): 3

A study of art and architecture from the Prehistoric era to the late Middle Ages. Fall.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

- VART 191 Art Survey: Renaissance-Modern** **credit(s): 3**
 A study of art and architecture from the late Middle Ages to modern times. Spring.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 192 Independent Study** **credit(s): 1-3**
 Course repeatable for 15 credit.
 Topic to be determined by faculty.
- VART 193 First Year Seminar** **credit(s): 3**
 The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.
Fulfills the following degree requirement(s): Core: First Year Seminar
Restriction(s):
 Must be the following Class(es): Freshman
- VART 194 World Art3 credits** **credit(s): 3**
 An introduction to the visual arts of Africa, Oceania, Asia, and the indigenous populations of South and North America from the fourteenth century to today. Fall, odd-numbered years.
- VART 195 Arts of Asia** **credit(s): 3**
 This course focuses on the art and architecture of China, Japan, Korea, and South and Southeast Asia from the Neolithic period to today. Students will examine developments in a variety of media, including painting, sculpture, architecture, ceramics, prints, textiles, and alternative media that have emerged since the 1960s. Spring, odd-numbered years.
- VART 201 Drawing II** **credit(s): 3**
 A continuation of VART 101. Spring.
Prerequisite(s): VART 101
- VART 202 Figure Drawing in Florence** **credit(s): 3**
 Course repeatable for 6 credit.
 Focuses on traditional drawing techniques and methods for depicting the physicality of the body and of space. VART 101 recommended as a pre-requisite but not required. Florence campus only.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 212 Sculpture Materials and Design I** **credit(s): 3**
 Explores the principal elements of design through sculpture and drawing projects. Students will develop their structural and perceptual senses, with a special emphasis on 3-D perception. Florence campus only.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 221 Oil Painting** **credit(s): 3**
 Basic problems in oil techniques, explorations in still life, landscape, and expression. Fall and Spring.
Prerequisite(s): VART 101 (or concurrent) or VART 112 (or concurrent)

- VART 230 3-D Design** **credit(s): 3**
 A foundational course focused on the principles and elements of design for three-dimensional/sculptural art. Students learn how to turn a concept/idea into a three-dimensional work of art. Fall and Spring.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 241 Ceramics II** **credit(s): 3**
 Qualities of form, function, and style are explored by means of wheel forming. Glaze development and approaches to firing techniques are introduced. Spring only.
Prerequisite(s): VART 141
- VART 272 Introduction to Filmmaking** **credit(s): 3**
 An experiential, hands-on course that introduces students to the fundamental aspects of digital filmmaking. Students will learn basic camera operation, audio recording, and video editing while also examining the creative and ethical considerations associated with the craft of filmmaking. Spring
Equivalent(s): BRCO 272, FILM 262
Prerequisite(s): VART 170 or VART 112 or JOUR 270
- VART 292 Directed Studio** **credit(s): 1-3**
 Course repeatable for 6 credit.
 Variable credit, directed study for the student with a limited schedule. Studio work by arrangement. Fall and Spring.
- VART 293 Introduction to Florence** **credit(s): 3**
 A survey of Florentine history from its origins to 1400, with special reference to the artistic, social, and literary developments of the 13th and 14th centuries. Florence campus only.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 294 Florence of the Medici** **credit(s): 3**
 A study of the artistic, social, and literary developments in Florence from the time of Savonarola through the Florence of Michelangelo, Cosimo I, Galileo, and the Grand Dukes. Florence campus only.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- VART 295 Spanish Art-Modern and Contemporary** **credit(s): 3**
 Granada campus only.
- VART 296 Spanish Art-Ancient, Medieval** **credit(s): 3**
 Granada campus only.
- VART 312 Sculpture Materials and Design II** **credit(s): 4**
 Course repeatable for 8 credit.
 Explores the principal elements of design through sculpture and drawing projects. Students will develop their structural and perceptual senses, with a special emphasis on 3-D perception. Florence campus only.
Prerequisite(s): VART 101 or VART 212
- VART 322 Fresco** **credit(s): 4**
 Exploration of Fresco techniques. Both buon and fresco secco are introduced. Students have hands-on experience and produce a fresco image during the course. Florence campus only.

- VART 323 Painting: Narrative/Figuration** **credit(s): 4**
 Focuses on the human figure and creating narrative in painting. Students work partly from direct observation, crafting works that explore imagery, symbolism, and setting. Fall only.
Prerequisite(s): VART 221
- VART 324 Painting: Theory and Practice** **credit(s): 4**
 Course repeatable for 8 credit.
 Focuses on contemporary theory in painting. Students create works on a single theme using different materials and processes.
Prerequisite(s): VART 221
- VART 341 Intermediate Ceramics Projects** **credit(s): 4**
 Course repeatable for 16 credit.
 A directed study of specific throwing and/or hand building techniques. Studio processes of glaze development and firing practices will be introduced.
Prerequisite(s): VART 241
- VART 349 Special Topics in Studio Art** **credit(s): 4**
 Course repeatable for 12 credit.
 Topics to be determined by instructor.
Restriction(s):
 Must be the following Class(es): Junior, Senior, Sophomore
- VART 350 Beginning Printmaking** **credit(s): 4**
 Introduces students to the development of imagery through a variety of etching and relief processes. Fall.
Prerequisite(s): VART 101
- VART 351 Beginning Screen Printing** **credit(s): 4**
 Introduces students to the development of imagery through the screen printing process. Spring.
Prerequisite(s): VART 101
- VART 352 Intermediate Printmaking** **credit(s): 4**
 Course repeatable for 8 credit.
 This course adds new printmaking techniques to the processes learned in beginning printmaking, refines the abilities already learned and expands the student's knowledge about image development through the printmaking process. Fall and Spring.
Prerequisite(s): VART 350 or VART 351
- VART 360 Museum Studies** **credit(s): 3**
 An exploration of the value and function of museums. History of Italian museums as outstanding examples of European Culture from the Renaissance to the 20th Century. Florence campus only. Can be substituted for one Art History requirement for Art majors.
Fulfills the following degree requirement(s): ITAL - Studies upp div elec
- VART 371 Art Fusion** **credit(s): 4**
 Course repeatable for 8 credit.
 Students experiment with the use of various art media, including photography and film, to create mixed media pieces and learn how to critically engage in the analysis of creative works of art. Spring.
Fulfills the following degree requirement(s): VART - Studio
Prerequisite(s): VART 112, minimum grade: C- or VART 170, minimum grade: C-

VART 385 Figure Drawing I **credit(s): 4**

Course repeatable for 8 credit.

Basic problems in developing the human figure and experiments with a variety of drawing media. Florence campus and main campus. Fall and Spring.

Prerequisite(s): VART 101 or VART 201 or VART 202

VART 386 Figure Drawing II **credit(s): 4**

Course repeatable for 12 credit.

A continuation of VART 385. Fall and Spring.

Prerequisite(s): VART 385

VART 393 Special Topics Study Abroad **credit(s): 3 or 4**

Topic determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 394 Special Topics in Art History **credit(s): 3**

Course repeatable for 9 credit.

Consult instructor for topic as it will vary each semester.

Fulfills the following degree requirement(s): VART - History

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 395 Art in the 19th Century **credit(s): 3**

A survey of European and American art from c. 1789 to 1914. Special emphasis placed on the relationship between art and political revolution, Orientalism and "Primitivism" in the visual arts, the rise of landscape painting, the invention of photography, and the formation of an avant-garde identity in the nineteenth century. Fall.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 396 Art in the 20th Century **credit(s): 3**

A survey of European and American art from the 1890's to 1990's. Course topics include: the relationship between avant-garde culture and political radicalism; "Primitivism" in western art; the machine aesthetic; abstraction and its meanings; the influence and role of photography in modern culture; and the emergence of alternative and experimental visual media in the 1960's and 1970's. Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 397 Renaissance Art **credit(s): 3**

A survey of the painting, sculpture, and architecture of Italy, 1400-1600. Florence campus only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec, Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 401 Renaissance Architecture **credit(s): 3**

Renaissance Architecture, civil engineering, and design from Brunelleschi to Leonardo and Michelangelo and the interdependence of such fields to Florentine humanism and the development of European modernity. Florence campus only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec, Core: Fine Arts and Design

VART 402 The Image of God **credit(s): 3**

A comparative study in religious art and architecture between the Western world and traditional Far Eastern aesthetics (Chinese and Japanese), focusing on the basic element of spirituality. Florence campus only.

VART 403 The Ancient City **credit(s): 3**

This course is a survey of the development of the city in the ancient world. Students will explore urban forms and processes as they are shaped by - and as they shape - their social, cultural, economic and physical contexts. The course will focus on representative urban centers of the ancient Near East, Egypt, and the Mediterranean world, tracing the evolution of ancient urbanism from the Near East to the classical worlds of Greece and Rome.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - Greek course, CLAS - History course, CLAS - Rome course

Equivalent(s): HIST 302

Prerequisite(s): HIST 101 or WGST 271C

VART 404 Archaeology of Ancient Greece **credit(s): 3**

This course examines the techniques and methods of Classical Archaeology as revealed through an examination of the major monuments and artifacts of Ancient Greece and its neighbors. Architecture, sculpture, vase and fresco painting, and the minor arts are all examined, from the Bronze Age through the Hellenistic period. We consider the nature of this archaeological evidence, and the relationship of classical archaeology to other disciplines such as history, art history, and the classical languages.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - Greek course, CLAS - History course

Equivalent(s): HIST 307

Prerequisite(s): HIST 101 or WGST 271C

VART 405 Archaeology of Ancient Rome **credit(s): 3**

This course examines the techniques and methods of classical archaeology as revealed through an examination of the major monuments and artifacts of ancient Rome and its neighbors. Architecture, sculpture, vase and fresco painting, and the minor arts are all examined, from the Early Iron Age through the Late Roman period. We consider the nature of this archaeological evidence, and the relationship of classical archaeology to other disciplines such as history, art history, and the classical languages.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - History course, CLAS - Rome course

Equivalent(s): HIST 308

Prerequisite(s): HIST 101 or WGST 271C

VART 406 American Cultures and Ideas **credit(s): 3**

This course will examine American history through an exploration of its culture. Throughout this course we will work towards defining what culture is, how it shapes expectations and assumption, how it motivates human actions and interactions, and how it is bound by time and place. Each student's ability to critically read cultural sources from an appropriately historical frame of reference will be tested in a variety of assignments, including weekly readings, writing assignments, and active class participation.

Fulfills the following degree requirement(s): VART - History, HIST - Race&Ethnic Communication West

Equivalent(s): HIST 366

VART 407 Women Artists **credit(s): 3**

An introduction to women as creators of fine and decorative art within North America and Europe from the late 18th C. to today. The course also addresses how women have been represented in art by men and other women.

Fulfills the following degree requirement(s): VART - History, Core: Fine Arts and Design

Equivalent(s): WGST 350

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 408 History of Photography **credit(s): 3**

An introduction to the origins and history of photography from the 1830's to today. Spring, even-numbered years.

Fulfills the following degree requirement(s): VART - History

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

VART 421 Advanced Painting Projects **credit(s): 4**

Course repeatable for 16 credit.

Advanced oil painting problems in still-life, figure and landscape. Fall and Spring.

Prerequisite(s): VART 324 or VART 323

VART 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

VART 441 Advanced Ceramics Projects **credit(s): 4**

Course repeatable for 12 credit.

Exploration of advanced glazing and firing techniques. Emphasis is on developing individual expression in ceramic form.

Prerequisite(s): VART 341

VART 442 Ceramic Materials **credit(s): 4**

A study of glaze theory and empirical formulation methods. Coursework is designed for the advanced student contemplating graduate school or a professional career in the studio. Upon sufficient demand.

Prerequisite(s): VART 241

VART 443 Kiln Design and Construction **credit(s): 4**

An exploration of kiln types, firing methods, and chamber designs. A kiln will be constructed and fired. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): VART 241

VART 450 Advanced Printmaking Projects **credit(s): 4**

Course repeatable for 16 credit.

This course continues to refine the abilities already learned and expands the student's knowledge about printmaking. The emphasis is on idea development in combination with technical skills to create a body of work through printed means. Individual exploration is encouraged and challenged through critical dialogue in combination with the teacher and fellow students.

Prerequisite(s): VART 352

VART 466 Philosophy of Art **credit(s): 3**

An analysis of beauty, creativity, and taste according to the theories of Aristotle, Plato, Aquinas, and some contemporary philosophers. Several representative works from all areas of the fine arts are examined in the light of the aesthetic principles of classical philosophy.

Equivalent(s): PHIL 472

Prerequisite(s): PHIL 201

VART 472 Creative Filmmaking **credit(s): 4**

An exploration of moving images and digital video as they relate to documentary films and art. Students learn how artists employ digital video and moving images in their artistic work. They also learn how to apply fundamental visual strategies of digital media and technological tools, including media editing software such as Adobe Premiere Pro and After Effects, to the creation and editing of video. Lab fee. Fall.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): BRCO 472, FILM 467, INMD 410

Prerequisite(s): INMD 101 and (VART 170 or JOURS 270 or SOSJ 261)

VART 480 Special Topics Studio **credit(s): 1-4**

Course repeatable for 16 credit.

Topic to be determined by Instructor.

VART 485 Advanced Drawing Projects **credit(s): 4**

Course repeatable for 16 credit.
Exploration of advanced drawing techniques.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): VART 386

VART 492 Independent Study **credit(s): 1-4**

Course repeatable for 16 credit.
Specialized study by arrangement with individual studio faculty.

VART 493 Studio Practice **credit(s): 1**

Course repeatable for 1 credit.
Students begin a body of work that launches them towards their larger group of works to be shown in April of their senior year as part of the senior exhibition. Students discuss and learn about various forms of studio practice and how artists create spaces, projects, and situations for themselves. Group critiques of work-in-progress will take place on a weekly basis. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Art, Art, Art History

Must be the following Class(es): Junior, Senior

VART 494 BFA Solo/Two-Person Exhibit **credit(s): 0**

Students will exhibit a body of work in the local area, on or off campus. Students will be responsible for the planning, marketing, and installation of their solo or two-person show. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Art

Must be the following Class(es): Senior

VART 497 Art Internship **credit(s): 0-6**

Course repeatable for 6 credit.
Professional work experience in an art-related field.

VART 498 Research **credit(s): 1-3**

Course repeatable for 15 credit.
Individual research on an art topic approved by and arranged with a faculty member.

Fulfills the following degree requirement(s): VART - History

VART 499 Professional Practice **credit(s): 2**

Required of Art Majors. Open to art minors by departmental invitation only. A seminar designed to prepare the graduating student for vocations in art or postgraduate studies, culminating with a public exhibition of the senior's portfolio demonstrating learned skills. Enrollment by permission of instructor. Spring.

Restriction(s):

Must be in the following Major(s): Art, Art

Must be the following Class(es): Senior

Biology

Chairperson: Kirk Anders

Professors: E. Addis, K. Anders, B. Bancroft, J. Beckstead, M. Bertagnolli, D. Boose, W. Ettinger, H. Lefcort, M. Poxleitner, N. Staub, B. Swanson, P. Pauw (Emeritus), R. Prusch (Emeritus)

Associate Professors: C. Andrade, L. Diaz-Martinez, G. Chang, J. Haydock

Assistant Professors: N. D'Souza, R. Geck, J. Hegg, J. Orcutt

Lecturers: M. Howard, K. Measor, H. Elsayed, C. Knadler, M. Marcec, J. Stafstrom

The department offers two degrees, one major and one minor:

Bachelor of Science, Biology major

Optional Concentrations in:

- Biology Research
- Ecology and Conservation Biology
- Evolution and Integrative Biology
- Microbiology, Molecular, Cell Biology
- Physiology

Bachelor of Arts, Biology major (optional Biology Research concentration)

Minor in Biology

Biology is the study of living organisms and the environment in which they live. To prepare students to pursue biology-oriented careers in fields such as medicine, dentistry, biotechnology, conservation science, environmental science, sustainability, research and teaching, we offer courses and experiences that help them understand the unity, diversity and complexity of life using evolutionary principles as the unifying theme. Through inquiry-based laboratory experiences and opportunities to participate in research projects, Biology majors also acquire problem solving and critical thinking skills and are therefore well prepared for their next step whether it be graduate or professional programs, specific training in health care fields, work in a lab or field station, or combining their scientific training with another interest such as business, law or even the arts.

Students earning a Biology degree at Gonzaga obtain:

- a broad, liberal arts education (through the university core curriculum)
- a common foundation of knowledge and experience across the breadth of biology (through the Biology common curriculum)
- foundational courses in the physical sciences that support biological research (chemistry and physics)
- the ability to investigate areas of interest in depth through a wide variety upper division courses

The Biology Department offers two degrees—the Bachelor of Science (B.S.) and the Bachelor of Arts (B.A.)—with one major: Biology. There are four subject-area concentrations within the Bachelor of Science degree, and a research concentration that can be combined with either the B.S. or the B.A. degree. Students are not required to choose a concentration. We also offer a Biology minor for students who want to combine a basic knowledge of Biology with a major in a different field.

The B.S. degree is designed for students preparing for careers in the life sciences, including continued training in graduate programs, as well as medical, dental and veterinary schools. The B.A. degree has fewer requirements and allows students more flexibility for combining the Biology major with other majors, minors, or certifications, such as teaching certification. The B.A. degree may also be suitable for graduate programs not requiring additional physics and chemistry.

Within the B.S. degree, students may choose a subject-area concentration aligned with one of the broad subfields of biology: Microbiology, Molecular, and Cell Biology (MMCB); Physiology; Ecology and Conservation Biology (ECB); or Evolution and Integrative Biology (EIB). These concentrations provide a focused and specific pathway through the major, while retaining the broad foundation and exposure to all of the major disciplinary areas in biology. Students may also choose a no-concentration option, which provides a broad overview of the field and prepares students for a wide range of career and education options.

The Research Concentration is designed for students who want to explore graduate level training in science, and can be combined with either the B.S. or the B.A. degree. Biology faculty members are committed to mentoring students in their research labs and also support Gonzaga students who are interested in doing summer research at other institutions. The Research Concentration may be combined with any of the subject-area concentrations.

Science impacts everyone in our society. To help promote an understanding of the nature of science and scientific issues that affect us all, the department offers courses that specifically fulfill the Scientific Inquiry requirement of the University Core curriculum: Scientific Inquiry (BIOL 104 and 104L), Biological Systems (BIOL 181 and BIOL 181L), and Field Studies in Biodiversity (BIOL 159 and 159L).

Biology Common Curriculum: 24 credits

All Biology students (B.S., B.A., and minor) take the Biology common curriculum, which includes the following courses:

Required lower division Biology courses:

BIOL 111 Biology Pathways	1 credit
BIOL 105/BIOL 105L Information Flow in Biological Systems & Lab	4 credits
BIOL 106 Energy Flow in Biological Systems	3 credits
BIOL 205/BIOL 205L Physiology and Biodiversity & Lab	4 credits
BIOL 206/BIOL 206L Ecology & Lab	4 credits
BIOL 207/BIOL 207L Genetics & Lab	4 credits
Required Chemistry courses	
CHEM 101/CHEM 101L General Chemistry I & Lab**	4 credits

*Not required for the Biology Minor

** Students pursuing the Biology minor may substitute ENVS 104 and ENVS 104L, Environmental Chemistry.

B.A. Major in Biology: 40 credits

In addition to the Biology common curriculum above, students pursuing the B.A. degree must also complete the following courses:

<i>Choose one of the following three combinations:</i>	4 credits
CHEM 102 / CHEM 102L General Chemistry II & Lab	
CHEM 230 / CHEM 230L Organic Chemistry I & Lab	
ENVS 202 / ENVS 202L Applied Environmental Chemistry and Lab	
BIOL 399 Advanced Topics	2 credits
BIOL Upper Division Electives	9 credits
(Any BIOL course numbered 300 or above. BIOL 399, 495, 497, and 499 do not qualify. CHEM 307/L may also be counted for meeting this requirement.)	
BIOL 495 Senior Evaluation	0 credits
BIOL 499 Senior Colloquium	1 credit

B.S. Major in Biology with no concentration: 64 credits

Lower Division

In addition to the Biology common curriculum above, students pursuing the B.S. degree must also complete the following courses:

CHEM 102 / CHEM 102L General Chemistry II & Lab 4 credits

CHEM 230/CHEM 230L Organic Chemistry I & Lab 4 credits

CHEM 231/CHEM 231L Organic Chemistry II & Lab 4 credits

One of the following two course and lab combinations: 5 credits

PHYS 111/PHYS 111L General Physics I and Lab

PHYS 121/PHYS 121L Physics I and Lab

One of the following two course & lab combinations: 5 credits

PHYS 112/PHYS 112L General Physics II and Lab

PHYS 122/PHYS 122L Physics II and Lab

Upper Division

BIOL 399 Advanced Topics 2 credits

BIOL Upper Division Electives* 15 credits

BIOL 495 Senior Evaluation 0 credits

BIOL 499 Senior Colloquium 1 credit

(Any BIOL course numbered 300 or above. BIOL 399, 495, 497, and 499 do not qualify. CHEM 307/L may also be counted for meeting this requirement.)

B.S. Major in Biology with a concentration in Microbiology, Molecular, and Cellular Biology (MMCB): 66-67 credits

In addition to the Biology common curriculum above, students pursuing the B.S. degree with the MMCB concentration must also complete the following courses:

Required Chemistry and Physics courses

CHEM 102 / CHEM 102L Chemistry & Lab 4 credits

CHEM 230/CHEM 230L Organic Chemistry I 4 credits

CHEM 231/CHEM 231L Organic Chemistry II 4 credits

CHEM 307/CHEM 307L Biochemistry I & Lab 4 credits

One of the following two course and lab combinations: 5 credits

PHYS 111/PHYS 111L General Physics I and Lab

PHYS 121/PHYS 121L Physics II and Lab

Required Math or Statistics :(Choose one of the following four courses) 3-4 credits

MATH 148 Survey of Calculus

MATH 157 Calculus-Analytical Geometry I

MATH 221 Applied Statistics

BIOL 305 Biological Data Analysis

Required upper division Biology courses

BIOL 399 Advanced Topics 2 credits

BIOL 495 Senior Evaluation 0 credits

BIOL 499 Senior Colloquium 1 credit

BIOL Upper Division and other science electives: **15 credits total**

Group A: Choose one of the following three courses with lab: 4 credits

BIOL 351/BIOL 351L Cell Biology + Lab

BIOL 370/BIOL 370L Microbiology + Lab

BIOL 456/BIOL 456L Molecular Biology + Lab

Group B: Choose one of the following seven courses and lab when required: 3-4 credits

BIOL 335 Advanced Genetics

BIOL 337 Developmental Biology

BIOL 351/BIOL 351L Cell Biology + Lab

BIOL 380 Group B approved study abroad

BIOL 451/BIOL 451L Comparative Endocrinology + Lab

BIOL 456/BIOL 456 Molecular Biology + Lab

BIOL 498 4 credits Group B approved Research

Group C: Choose one of the following six courses and lab when required 3-4 credits

BIOL 331 Parasitology

BIOL 370/BIOL 370L Microbiology + Lab

BIOL 374 Immunology

BIOL 375 Virology

BIOL 380 Group C approved study abroad

BIOL 498 4 credits approved Research

Choose sufficient credits from the list of courses below to reach a minimum of 15 credits when combined with the upper-division BIOL electives above:

BIOL 301-498, including those listed above that were not used to meet any requirement above (BIOL 399, 495, and 497 do not qualify)

CHEM 300 and higher

CPSC 121 and higher

MATH 148 and higher, if not used above

PHYS 112 and higher

B.S. Degree with a Concentration in Physiology: 63 – 64 credits

In addition to the Biology common curriculum above, students pursuing the B.S. degree with the Physiology concentration must also complete the following courses:

Required Chemistry and Physics courses

CHEM 230/CHEM 230L Organic Chemistry I 4 credits

One of the following two courses and lab combinations: 5 credits

PHYS 111/PHYS 111L General Physics I and Lab

PHYS 121/PHYS 121L Physics I and Lab

Required Math or Statistics: Choose one of the following three courses 3-4 credits

MATH 321 Statistics for Experimentalist

MATH 221 Applied Statistics

BIOL 305 Biological Data Analysis

Required upper division Biology courses

BIOL 399 Advanced Topics 2 credits

BIOL 495 Senior Evaluation 0 credits

BIOL 499 Senior Colloquium 1 credit

BIOL Upper Division Electives: **15 credits total**

A total of 15 credits of upper-division BIOL electives. At least 10 credits must be taken from this list; at least one course must include a lab:

BIOL 313 Animal Behavior

BIOL 341/BIOL 341L Human Physiology + Lab

BIOL 351/BIOL 351L Cell Biology + Lab

BIOL 371/BIOL 371L Vertebrate Biology + Lab

BIOL 420 Physiological Ecology

BIOL 451/BIOL 451L Endocrinology + Lab

BIOL 441/BIOL 441L Advanced Physiology + Lab

BIOL 498 4 credits Physiology approved Research

Choose sufficient credits from the list of upper-division BIOL electives below to reach a minimum of 15 credits when combined with the upper-division BIOL electives above:

BIOL 301-498, including those listed above that were not used to meet any requirement above (BIOL 399, 495, and 497 do not qualify.)

Other Science Electives: 9 credits

Any upper division BIOL courses that have not already been counted toward the concentration (BIOL 399, 495, 497, and 499 do not qualify)

CHEM 102 / CHEM 102L

CHEM 231 and higher

CPSC 121 and higher

ANY MATH course 148 or higher

Any PHYS course above 111

B.S. Degree with a Concentration in Ecology and Conservation Biology (ECB): 64 – 65 credits

In addition to the Biology common curriculum above, students pursuing the B.S. degree with the ECB concentration must also complete the following courses:

Required Chemistry and Physics courses

One of the following three courses 4 credits

CHEM 102 / CHEM 102L General Chemistry II & Lab

CHEM 230/CHEM 230L Organic Chemistry I & Lab

ENVS 202/ENVS 202L Applied Chemistry of the Environment & Lab

One of the following two courses and lab combinations: 5 credits

PHYS 111/PHYS 111L General Physics I and Lab

PHYS 121/PHYS 121L Physics I and Lab

One of the following two math courses 3-4 credits

MATH 148 Survey of Calculus

MATH 157 Calculus-Analytical Geometry I

One of the following statistic courses

MATH 221 Applied Statistics ¹

BIOL 305 Biological Data Analysis

Required upper division Biology courses

BIOL 399 Advanced Topics 2 credits

BIOL 495 Senior Evaluation 0 credits

BIOL 499 Senior Colloquium 1 credit

BIOL Upper Division Electives: **16 credits total**

At least 12 credits must be taken from this list. At least two courses must include labs; a significant research experience (BIOL 498, 4 credits) can substitute for one laboratory course.

BIOL 303/BIOL 303L Population Ecology + Lab (or

BIOL 342/BIOL 342L Plant Population Ecology and Lab)

BIOL 313 Animal Behavior

BIOL 323/BIOL 323L Conservation Biology + Lab

BIOL 331 Parasitology

BIOL 333 Community Ecology

BIOL 340/BIOL 340L Field Botany + Lab

BIOL 344/BIOL 344L GIS and Ecological Techniques + Lab

BIOL 357/BIOL 357L Principles of Wildlife Mgmt. + Lab

BIOL 359/BIOL 359L Studies in Biodiversity + Lab

BIOL 360 Plant Biology

BIOL 367/BIOL 367L Entomology + Lab

BIOL 403/BIOL 403L Marine Biology + Lab

BIOL 420 Physiological Ecology

BIOL 498 4 credits ECB approved Research

Choose sufficient credits from the list of upper-division BIOL electives below to reach a minimum of 16 credits when combined with the upper-division BIOL electives above:

BIOL 301-498, including those listed above that were not used to meet any requirement above (BIOL 399, 495, and 497 do not qualify.)

Other Science Electives: Choose a minimum of six credits from the following: 6-8 credits

Any upper division BIOL courses that have not already been counted toward the concentration (BIOL 399, 495, 497, and 499 do not qualify.)

Any CHEM course 102 or above that has not already been counted toward the concentration (CHEM 104 does not qualify.)

CPSC 121 and higher

ANY MATH course above 148 that has not already been counted toward the concentration.

Any PHYS course above 111

B.S. Degree with a Concentration in Evolution and Integrative Biology (EIB): 60 – 65 credits

In addition to the Biology common curriculum above, students pursuing the B.S. degree with the EIB concentration must also complete the following courses:

Required Chemistry and Physics courses

CHEM 230/CHEM 230L Organic Chemistry I & Lab 4 credits

One of the following two courses and lab combinations: 5 credits

PHYS 111/PHYS 111L General Physics I and Lab

PHYS 121/PHYS 121L Physics I and Lab

Required Math or Statistics: Choose one of the following four courses 3-4 credits

MATH 147 Precalculus or math course for science majors

MATH 121 Statistics

MATH 221 Applied Statistics ²

BIOL 305 Biological Data Analysis

Required upper division Biology courses

BIOL 399 Advanced Topics 2 credits

BIOL 495 Senior Evaluation 0 credits

BIOL 499 Senior Colloquium 1 credit

One of the following two courses: 3-4 credits

BIOL 334 Advanced Evolution

BIOL 323/BIOL 323L Conservation Biology

BIOL Upper Division Electives 12 credits

At least ONE course must include a lab or BIOL 498, 4 credits) Can substitute for the laboratory course.

MUST select courses from 2 of the 3 Groups (A,B,C)

Group A:

BIOL 335 Advanced Genetics
BIOL 351/BIOL 351L Cell Biology + Lab
BIOL 370/BIOL 370L Microbiology + Lab
BIOL 374 Immunology
BIOL 375 Virology
BIOL 456/BIOL 456 Molecular Biology + Lab
BIOL 441/BIOL 441L Advanced Physiology + Lab

Group B:

BIOL 313 Animal Behavior
BIOL 331 Parasitology
BIOL 334 Advanced Evolution
BIOL 337 Developmental Biology
BIOL 340/BIOL 340L Field Botany + Lab
BIOL 341/BIOL 341L Human Physiology + Lab
BIOL 451/BIOL 451L Comparative Endocrinology + Lab
BIOL 360/BIOL 360L Plant Biology + Lab
BIOL 367/BIOL 367L Entomology + Lab
BIOL 441/BIOL 441L Advanced Physiology + Lab
BIOL 371/BIOL 371L Vertebrate Biology + Lab

Group C:

BIOL 303/BIOL 303L Population Ecology + Lab (or
BIOL 342/BIOL 342L Plant Population Ecology + Lab)
BIOL 323/BIOL 323L Conservation Biology + Lab
BIOL 333 Community Ecology or
BIOL 343 Plant Community Ecology
BIOL 344/BIOL 344L GIS + Lab
BIOL 357/BIOL 357L Princ. Wildlife Mgmt. + Lab
BIOL 359/BIOL 359L Studies in Biodiversity + Lab
BIOL 403/BIOL 403L Marine Biology + Lab
BIOL 420 Physiological Ecology

Other Science Electives: *At least two of the following courses must be taken* 6-9 credits

BIOL 305 Biological Data Analysis
MATH 148 and higher, if not used above
CHEM 102 / CHEM 102L and any CHEM course above 230
CPSC 121 and higher
PHYS 112 and higher, if not used above

² MATH 221 requires MATH 148 as a prerequisite.

Minor in Biology: 28 credits

In addition to the Biology common curriculum above, students pursuing a minor in Biology must also complete at least five credits of upper-division Biology electives (300- or 400-level).

Students must earn a C- grade or better in BIOL 105/105L and CHEM 101/101L in order to take BIOL 106. A C- grade or better in BIOL 106 is required in order to take BIOL 205, 206, or 207. Students must also earn a C- grade or better in BIOL 205/205L, 206/206L, 207/207L and 399 in order to take BIOL 499. For upper division biology electives, a minimum of 10 credits (B.S.), 6 credits (B.A.), or 4 credits (Minor) must be biology courses taken from Gonzaga faculty; students participating in study abroad programs should make note. Credits from BIOL 497, Biology Internship, do not satisfy any requirements for the Biology Major or Minor.

All courses should be chosen in consultation with a faculty advisor.

B.S. or B.A. in Biology with Research Concentration

The Research Concentration is designed to make research experiences available to more students, to show students the value of science education outreach through experiential learning, and to provide students with a more solid foundation in biological mathematics and science communication. It consists of a number of courses and experiences designed to prepare students to pursue research in some venue (graduate school, industry, government, medical school, or science education) after graduation. Students can enter the program at any time, although we anticipate most students will enter the program as sophomores or juniors.

To complete the Research Concentration, the following requirements are added to the requirements for the B.S. or B.A. degree in biology:

1. Participate in a significant research experience. This means working on an independent research project for the equivalent of 4 credits. Most students can fulfill this requirement in one summer of full-time research or four academic semesters of research while enrolled in other classes. Enrolling in the Research Concentration does not guarantee a research experience. It is the student's responsibility to secure a research position. This requirement can be fulfilled by working with a GU faculty member or, with prior permission, with a faculty member at a different institution.
2. Present the results from the independent research (in oral or poster format) to the scientific community at an event organized for that purpose.
3. Write up the research results under advisement with your research mentor. Final papers will be turned in to the Research Coordinator the last month of the final semester you are enrolled at Gonzaga. If you did research off campus, see the Research Coordinator to arrange a local writing mentor.

4. Participate in science education outreach for 16 hours one semester (BIOL 295/CHEM 295).
5. Take BIOL 484 Research Seminar (1 credit) and attend a minimum of 12 biology-related seminars (including those in BIOL 484), and write and submit a seminar reflection for each seminar.
6. Take a college calculus course, Survey of Calculus (MATH 148) or Calculus and Analytic Geometry I (MATH 157).
7. Complete a statistics course (MATH 121 or MATH 321) or biological mathematics course, Biological Data Analysis (BIOL 305).

Courses:

BIOL 104 Scientific Inquiry: credit(s): 2

This lecture and laboratory course content will be determined by the instructor to meet the learning objectives of the Scientific Inquiry requirement of the University Core. Fall and Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Restriction(s):

Corequisite(s): BIOL 104L

BIOL 104L Scientific Inquiry Lab credit(s): 1

Taken concurrently with BIOL 104.

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): BIOL 104

BIOL 105 Information Flow in Biological Systems credit(s): 3

This course provides a foundation in the principles of biology by examining the fundamental role of information in generating the properties of life. The course explores the molecular basis of biological information (codes, signals, structures) and its role in growth, development, communication, regulation, reproduction and evolution of living things. Fall and Spring.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biochemistry, Biology, Biology, Biology, Comp Sci & Computation Think, Computer Science, Human Physiology, Nursing

Corequisite(s): BIOL 105L

BIOL 105L Information Flow in Biological Systems Lab credit(s): 1

Designed to provide students with an authentic scientific discovery experience, this laboratory involves the isolation, identification, and characterization of novel bacteriophages from local soil samples. Students learn how to approach scientific questions, make observations, record, analyze and report data. Taken concurrently with BIOL 105.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biochemistry, Biology, Biology, Biology, Comp Sci & Computation Think, Computer Science, Human Physiology, Nursing

Prerequisite(s): BIOL 105, minimum grade: C- (or concurrent)

BIOL 106 Energy Flow in Biological Systems credit(s): 3

This course focuses on the biological processes of energy acquisition, how energy is used in biological systems, and how energy is transferred between organisms and through ecosystems. Human impacts to energy transfer will be covered and topics will integrate energy concepts from cells to organisms to ecosystems. There is no laboratory associated with this course. Fall and Spring.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biochemistry, Biology, Biology, Biology, Comp Sci & Computation Think, Computer Science, Human Physiology

Prerequisite(s): BIOL 105, minimum grade: C- and BIOL 105L, minimum grade: C- (or concurrent) and CHEM 101, minimum grade: C- and CHEM 101L, minimum grade: C- and CHEM 101L, minimum grade: C-

BIOL 159 Studies in Biodiversity credit(s): 1

Course repeatable for 2 credit.

This course is an optional continuation of BIOL 159L Field Studies in Biodiversity. Research projects initiated in the field in BIOL 159L will be concluded with further library research, completion of a technical or popular press article, drafting and editing a poster, and a presentation at a local or regional event. Fall.

Equivalent(s): BIOL 359

Prerequisite(s): BIOL 159L

BIOL 159L Field Studies in Biodiversity credit(s): 3

Course repeatable for 6 credit.

This course uses a field experience as a backdrop to learn about evolutionary, ecological and biogeographical processes that determine the ranges and biodiversity of organisms. The course begins with class work on the Gonzaga campus and is followed by 3-4 weeks in the field, where Gonzaga faculty and local experts will mentor students. Field locations vary by year and include Ecuador, Zambia, or domestic locations. This course is designed for non-science majors. The class meets together with the students enrolled in BIOL 359L for Biology majors. Summer.

Fulfills the following degree requirement(s): Core: Science Inquiry

Equivalent(s): BIOL 359L

BIOL 170 Introduction to Microbiology credit(s): 3

An introduction to microbiology for students in Nursing or other allied health professions who will not be majoring in Biology. The course includes basic cellular chemistry and genetics, as well as a survey of topics of clinical importance. Fall and Spring.

Restriction(s):

Must not be in the following Major(s): Biology, Biology

Corequisite(s): BIOL 170L

Prerequisite(s): (BIOL 105, minimum grade: C- or TRAN GBIO, minimum grade: T) and BIOL 105L, minimum grade: C- (and CHEM 101, minimum grade: C- or TRAN GCHM, minimum grade: T)

BIOL 170L Introduction to Microbiology Lab credit(s): 1

An introduction to methods of microbial analysis including the culture, safe handling, and genetic analysis of microbes. Taken concurrently with BIOL 170.

Corequisite(s): BIOL 170

BIOL 181 Biological Systems **credit(s): 2**

This course provides an exploration of the basic systems in biology from plants to animals and from cells to ecosystems for non-science majors. Additionally, this course provides elementary teacher candidates with the basic content knowledge needed to teach life science at the elementary school level. Lab is required. Fall.

Fulfills the following degree requirement(s): Core: Science Inquiry

Restriction(s):

Must not be in the following Major(s): Biology, Biology

Corequisite(s): BIOL 181L

BIOL 181L Biological Systems Lab **credit(s): 1**

Taken concurrently with BIOL 181.

Fulfills the following degree requirement(s): Core: Science Inquiry

Restriction(s):

Must not be in the following Major(s): Biology, Biology

Corequisite(s): BIOL 181

BIOL 190 Special Topics **credit(s): 0-3**

Course repeatable for 6 credit.

Topic to be determined by instructor.

BIOL 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

BIOL 199 Investigations in Biology **credit(s): 2**

Course repeatable 3 time.

Designed for non-science majors; this fulfills the core Scientific Inquiry requirement. Lectures and laboratory sessions emphasize science as an inquiry based process. Laboratory is required when offered.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Restriction(s):

Must not be in the following Major(s): Biochemistry, Biology, Biology, Chemistry, Chemistry

Corequisite(s): BIOL 199L

BIOL 199L Investigations in Biology Lab **credit(s): 1**

Taken concurrently with BIOL 199.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Restriction(s):

Must not be in the following Major(s): Biochemistry, Biology, Biology, Chemistry, Chemistry

Corequisite(s): BIOL 199

BIOL 205 Physiology and Biodiversity **credit(s): 3**

This course focuses on understanding the diversity of life on earth and the physiological mechanisms that allow organisms to live in a wide array of environments. A framework of physiology is used to compare and contrast clades of organisms. A prerequisite for most upper division biology elective courses, and a pre-requisite for BIOL 499. Fall.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology, Comp Sci & Computation Think

Corequisite(s): BIOL 205L

Prerequisite(s): BIOL 105, minimum grade: C- and BIOL 105L, minimum grade: C- and BIOL 106, minimum grade: C-

BIOL 205L Physiology and Biodiversity Lab **credit(s): 1**

Students are introduced to the diversity of organisms and physiological processes that allow organisms to live in a wide array of environments.

Fulfills the following degree requirement(s): Core: Writing Enriched

Corequisite(s): BIOL 205

BIOL 206 Ecology **credit(s): 3**

This course examines the ecological and evolutionary mechanisms that determine the distribution and abundance of species. Students will explore interactions between organisms and their environments at levels from individuals through ecosystems. A pre-requisite for most upper division biology elective courses, and a pre-requisite for BIOL 499. Must be taken Sophomore or Junior year, and cannot be taken Senior year. Spring.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology, Comp Sci & Computation Think

Corequisite(s): BIOL 206L

Prerequisite(s): BIOL 105, minimum grade: C- and BIOL 105L, minimum grade: C- and BIOL 106, minimum grade: C-

BIOL 206L Ecology Lab **credit(s): 1**

Field and laboratory experiments are used to investigate ecological mechanisms that determine the distribution and abundance of species. Taken concurrently with BIOL 206.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology, Comp Sci & Computation Think

Corequisite(s): BIOL 206

BIOL 207 Genetics**credit(s): 3**

This course promotes an understanding of genes and genomes – their molecular properties, how they are expressed and regulated, how they contribute to inheritance, and how they are shaped by evolutionary forces. A pre-requisite for most upper division biology elective courses and a pre-requisite for BIOL 499. Fall and Spring.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biochemistry, Biology, Biology, Biology, Comp Sci & Computation Think

Corequisite(s): BIOL 207L**Prerequisite(s):** BIOL 105, minimum grade: C- and BIOL 105L, minimum grade: C- and BIOL 106, minimum grade: C-**BIOL 207L Genetics Lab****credit(s): 1**

This course provides students with hands-on experimental investigations of molecular mechanisms in genetics. Taken concurrently with BIOL 207.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): BIOL 207**BIOL 290 Directed Readings****credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

BIOL 295 Science Outreach**credit(s): 0**

Course repeatable 8 time.

The Biology and Chemistry/Biochemistry departments run a variety of outreach programs that include class visits, field trip tours, special summer programs and more. All of our programs strive to engage participants with opportunities for hands-on scientific discovery and inspiration. Fall and Spring.

Equivalent(s): CHEM 295**BIOL 301L Cell Techniques Lab****credit(s): 2**

This course is an intensive introduction to methods of analysis of prokaryotic and eukaryotic cell structure, composition, and behavior. Microscopy (brightfield and fluorescence), protein studies, enzyme kinetics, bacterial growth, cell signaling, and development are just some of the areas of research students will be exposed to. This course will also be scientific writing and reading intensive, developing student expertise in these critical areas in the field of biological research. Offered upon sufficient demand.

Pre-requisite: CHEM 230 and CHEM 230L and BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 207, minimum grade: C-)

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Prerequisite(s): CHEM 230 and CHEM 230L and BIOL 106, minimum grade C-, and (BIOL 205, minimum grade C- or BIOL 207, minimum grade C-)**BIOL 303 Population Ecology****credit(s): 3**

An in-depth look at the interactions that control the distribution and abundance of organisms at the population level. Topics such as life-history strategies, population dynamics, competition,

predation, parasitism, and mutualism will be explored through the research literature, and quantitative approaches. Fall, even years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 401

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 303L Population Ecology Laboratory

credit(s): 1

Taken concurrently with BIOL 303 when the laboratory is offered.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): BIOL 303

BIOL 304 Practice in Laboratory Teaching

credit(s): 1-2

Course repeatable for 8 credit.

Students gain teaching experience by assisting laboratory instructors as a teaching assistant (TA) in a laboratory course. Duties may include laboratory set-up, in-class mentoring, grading, and quiz preparation. May be repeated. A maximum of two credits may be applied to Biology electives. Usually limited to students who have earned an A or B in the lecture portion of the course for which the student is a candidate to TA the laboratory. By permission only. Fall and Spring.

Prerequisite(s): BIOL 106, minimum grade: C-

BIOL 305 Biological Data Analysis

credit(s): 4

An applied study of statistical methods used to investigate biological questions. Emphasis will be on applications using software to investigate biological data sets generated by student and instructor research. The course will survey descriptive statistics, sampling, experimental design, estimation, hypothesis testing, and model building (e.g. analysis of variance, regression, multivariate). This course does not fulfill the University Core Math requirement. Spring, odd years.

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C-)

BIOL 313 Animal Behavior

credit(s): 3

This course explores how behavioral processes affect ecological patterns. The behavioral adaptations of animals to their environment including the evolution of behavior, foraging, competition for resources, reproductive ecology, mating systems, parental care, and cooperative behavior. Fall, odd years.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 313L Animal Behavior Lab

credit(s): 1

Taken concurrently with BIOL 313 when the laboratory is offered.

Corequisite(s): BIOL 313

BIOL 323 Conservation Biology **credit(s): 3**

This course covers the biological concepts important for the conservation of natural populations, communities, and ecosystems. Both theoretical and empirical studies will be applied to such topics as: the genetics and ecology of small populations, consequences of habitat fragmentation, the impact of introduced species, and the ecological value of biological diversity. Spring.

Pre-requisite: BIOL 106, minimum grade: C- and (BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C-).

Fulfills the following degree requirement(s): ENVS - Studies elective

Equivalent(s): ENVS 303

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C-)

BIOL 323L Conservation Biology Lab **credit(s): 1**

This laboratory includes field trips. Taken concurrently with BIOL 323.

Equivalent(s): ENVS 303L

Corequisite(s): BIOL 323

BIOL 330 Invertebrate Biology **credit(s): 4**

An examination of the major invertebrate phyla, including an overview of the structural and functional characteristics of each group. The evolutionary relationships between various invertebrate groups will also be examined. Emphasis will be placed on the interaction of marine species with their environment. Taught in a combined lecture/laboratory format. Offered upon sufficient demand.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C-.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C-

BIOL 331 Parasitology **credit(s): 3**

Explores the medical, physiological, ecological, and historical effects of parasites. The course concentrates on human parasites and ranges from viruses and bacteria through helminthes and arthropods. Fall.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 331L Parasitology Lab **credit(s): 1**

Taken concurrently with BIOL 331 when laboratory is offered.

Corequisite(s): BIOL 331

BIOL 333 Community Ecology **credit(s): 3**

Community ecology seeks to explain the underlying mechanisms that create, maintain, and determine the fate of biological communities. Typically, patterns are documented by observation, and used to generate hypotheses about processes, which are tested. Integrating theory with real

world observations is fundamental to community ecology and will be a focus of this class.

Equivalent(s): BIOL 343, ENVS 407

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 334 Advanced Evolution **credit(s): 3**

Course repeatable 1 time.

An in-depth study of the mechanisms responsible for the diversity of life on earth. Topics covered include speciation, adaptation, systematics, extinction, natural selection, genetic drift, mutation, and gene flow. Examples are chosen from all types of organisms. This course may be repeated once as long as the content is different than the first occurrence of enrollment.

Spring, odd years.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 335 Advanced Genetics: **credit(s): 3**

Course repeatable for 6 credit.

An advanced study of genetics within the context of a selected topic in biology. Past topics have included an examination of human race and racism and the study of genomes. This course may be repeated once as long as the content is different than the first occurrence of enrollment.

Spring, even years.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C-.

Equivalent(s): HONS 407

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 335L AdvancedGenetics Lab **credit(s): 1**

Course repeatable for 2 credit.

Taken concurrently with BIOL 335 when laboratory is offered.

Corequisite(s): BIOL 335

BIOL 337 Developmental Biology **credit(s): 3**

A study of the principles and mechanisms that underlie the development of plants and animals, using approaches that integrate cell biology, genetics, molecular biology, and evolution. Spring, odd years.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 337L Developmental Biology Lab **credit(s): 1**

Taken concurrently with BIOL 337.

Corequisite(s): BIOL 337

BIOL 338 Histology **credit(s): 3**

A study of the microscopic structure of animal (mostly mammalian) tissues and organs. Topics include: histology, cytology, and microscopic anatomy as exemplified in animal tissue. Material

will emphasize the relationship between structure and function in tissues and organs. Fall.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences

Corequisite(s): BIOL 338L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 338L Histology Lab

credit(s): 1

Labs will combine the study of tissue structure using a collection of prepared slides, and the processing and sectioning of tissue samples. Lab assignments will include the production of personal digital atlases.

Taken concurrently with BIOL 338.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-.

Corequisite(s): BIOL 338

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 340 Field Botany

credit(s): 3

Course includes systematics of flowering plants, plant communities of the Inland Northwest, sight identification of major plant families and selected topics in plant ecology. A plant collection is required as well as a field project in the area of plant

systematics or plant ecology. This course counts towards the required 9 plant-related credits for Wildlife Biology positions with

federal agencies, such as U.S. Fish and Wildlife Service and U.S. Forest Service that utilize Wildlife Biology Series GS-0486. Summer. Offered upon sufficient demand.

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Comp Sci & Computation Think

Equivalent(s): ENVS 410

Corequisite(s): BIOL 340L

Prerequisite(s): (BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-) or ENVS 103, minimum grade: B-.

BIOL 340L Field Botany Lab

credit(s): 1

Taken concurrently with BIOL 340.

Equivalent(s): ENVS 410L

Corequisite(s): BIOL 340

Prerequisite(s): (BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-) or ENVS 103, minimum grade: B-.

BIOL 341 Human Physiology

credit(s): 3

Examines the function of human physiological systems including: metabolic, nervous, cardiovascular, respiratory, renal, muscular, and immunological. Systems are examined through case studies focused on human disease and human performance. Spring, odd years.

Corequisite(s): BIOL 341L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 341L Human Physiology Lab **credit(s): 1**

Taken concurrently with BIOL 341. May require weekend field trips.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

Corequisite(s): BIOL 341

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 342 Plant Population Ecology **credit(s): 3**

This class meets with and covers the same topics as BIOL 303 (Population Ecology) but takes a more plant-focused approach. Through class illustrations and independent projects, students will investigate the theories and empirical evidence in population ecology that directly influence plant populations. This course counts towards the required 9 plant-related credits for Wildlife Biology positions with federal agencies, such as U.S. Fish and Wildlife Service and U.S. Forest Service that utilize Wildlife Biology Series GS-0486. Fall, even years.

Equivalent(s): ENVS 411

Prerequisite(s): BIOL 206, minimum grade: C- or ENVS 103, minimum grade: C-

Corequisite(s): BIOL 303L

BIOL 343 Plant Community Ecology **credit(s): 3**

This class meets with and covers the same topics as BIOL 333 (Community Ecology), but takes a more plant-focused

approach. Students will explore the theories and experimental evidence of community ecology and conduct ecology projects with

a specific focus on plant processes. This course counts towards the required 9 plant-related credits for Wildlife Biology positions

with federal agencies, such as U.S. Fish and Wildlife Service and U.S. Forest Service that utilize Wildlife Biology Series GS-0486. Fall, odd years. Offered upon sufficient demand.

Equivalent(s): BIOL 333, ENVS 412

Prerequisite(s): BIOL 206, minimum grade: C- or ENVS 103, minimum grade: B-

BIOL 344 GIS and Ecological Techniques **credit(s): 3**

This course will introduce students to geographic information systems (GIS) and focus on how GIS can be used to address research and management questions in ecology. Students will use existing GIS databases from area resource agencies and learn how to create new GIS databases from field exercises. Field techniques will include vegetation sampling, small mammal trapping, amphibian/reptile monitoring, distance sampling, wildlife habitat assessment, and mapping exercises using compass and global position systems (GPS). Spring, even years.

Corequisite(s): BIOL 344L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 344L GIS and Ecological Techniques in Lab **credit(s): 1**

Taken concurrently with BIOL 344.

Corequisite(s): BIOL 344

BIOL 351 Advanced Cell Biology credit(s): 3

An advanced study of cell structure and function with an emphasis on selected topics in cell biology. Topics vary with instructor, but may include cell signaling, cell cycle, plant cells, and the cell biology of cancer. Spring.

Corequisite(s): BIOL 351L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 351L Advanced Cell Biology Lab credit(s): 1

Taken concurrently with BIOL 351 when laboratory is offered.

Corequisite(s): BIOL 351

BIOL 357 Principles of Wildlife Management credit(s): 3

The ecology, theory, methods, and philosophy of wildlife management emphasizing game, nongame, and endangered species. Students gain an understanding of the roles and responsibilities of various government agencies and non-governmental organizations. Fall, even years.

Fulfills the following degree requirement(s): ENVS - Studies elective, ENVS - Science Tech elective

Equivalent(s): ENVS 387

Corequisite(s): BIOL 357L

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C-)

BIOL 357L Wildlife Management Lab credit(s): 1

This laboratory includes field trips. Taken concurrently with BIOL 357.

Fulfills the following degree requirement(s): ENVS - Studies elective

Equivalent(s): ENVS 387L

Corequisite(s): BIOL 357

BIOL 359 Studies in Biodiversity credit(s): 1

Course repeatable for 2 credit.

This course is a continuation of BIOL 359L Field Studies in Biodiversity. Research projects initiated in the field in BIOL 359L will be concluded with further library research, completion of a scientific article, and presentation of the research at a local or regional meeting. Fall.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 159

Restriction(s):

Must not be in the following Major(s): Must be in the following Major(s): App Math - Biology, Biology, Biology

Prerequisite(s): BIOL 359L

BIOL 359L Field Studies in Biodiversity credit(s): 3

Course repeatable for 6 credit.

This course uses a field experience as a backdrop to learn about evolutionary, ecological and biogeographical processes that determine the ranges and biodiversity of organisms. The course begins with class work on the Gonzaga campus and is followed by 3-4 weeks in the field, where Gonzaga faculty and local experts will mentor students. Field locations vary by year and include Ecuador, Zambia, or domestic locations. This course is designed for students majoring or

minoring in biology. The class meets together with students enrolled in BIOL 159L for non-science majors. Students are required to enroll in BIOL 359, Studies in Biodiversity, the semester after enrolling in BIOL 359L. Summer.

Equivalent(s): BIOL 159L

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C-)

BIOL 360 Plant Biology **credit(s): 3**

This course acquaints students with the evolution, structure, development and functions of plant cells, tissues and organs. Plant identification and classification are emphasized, along with the importance of environment and ethical considerations of the applied plant sciences. This course counts towards the required 9 plant-related credits for Wildlife Biology positions with federal agencies, such as U.S. Fish and Wildlife Service and U.S. Forest Service that utilize Wildlife Biology Series GS-0486. Fall, odd years.

Equivalent(s): ENVS 413

Corequisite(s): BIOL 360L

Prerequisite(s): (BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-) or ENVS 413, minimum grade: B-.

BIOL 360L Plant Biology Lab **credit(s): 1**

This laboratory includes field trips. Taken concurrently with BIOL 360.

Equivalent(s): ENVS 413L

Corequisite(s): BIOL 360

Prerequisite(s): (BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-) or ENVS 413, minimum grade: B-.

BIOL 363 Plant Propagation & Restoration **credit(s): 3**

This course covers the ecological theories and plant strategies that inform ecological restoration, aiming to repair damaged ecosystems and create habitats for wildlife. The practical skills of restoration project planning, monitoring, regulatory reporting, and traditional ecological knowledge will be covered. This course counts towards the required 9 plant-related credits for Wildlife Biology positions with federal agencies, such as U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Geological Survey, Bureau of Land Management, etc.; Wildlife Biology Series GS-0486. Spring, odd years.

Fulfills the following degree requirement(s): BIOL – upper division elective; ENVS - Science Tech elective

Equivalent(s): ENVS 414

Corequisite(s): BIOL 363L

Prerequisite(s): BIOL 206, minimum grade: C- or ENVS 103, minimum grade: B-

BIOL 363L Plant Propagation & Restoration Lab **credit(s): 1**

This course will address plant propagation, plant identification, and general plant care that are foundational skills for restoration projects. Field trips are included. This course counts towards the required 9 plant-related credits for Wildlife Biology positions with federal agencies, such as

U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Geological Survey, Bureau of Land Management, etc.; Wildlife Biology Series GS-0486.

Fulfills the following degree requirement(s): BIOL – upper division elective; ENVS - Science Tech elective

Equivalent(s): ENVS 414L

Corequisite(s): BIOL 363

BIOL 367 Entomology **credit(s): 3**

This course introduces students to the scientific study of insects. Topics will include insect identification, diversity, behavior, anatomy, ecology, and applied entomology. Fall, odd years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 406

Corequisite(s): BIOL 367L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 367L Entomology Lab **credit(s): 1**

This laboratory includes field trips. Taken concurrently with BIOL 367.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 406L

Corequisite(s): BIOL 367

BIOL 370 Microbiology **credit(s): 3**

A study of the fundamental factors involved in microbiology including basic microbial morphology, taxonomy, biochemistry, genetics, and culture techniques. Fall and Spring

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Corequisite(s): BIOL 370L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 370L Microbiology Lab **credit(s): 1**

Taken concurrently with BIOL 370.

Pre-requisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

Corequisite(s): BIOL 370

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 371 Vertebrate Biology and Anatomy **credit(s): 3**

Vertebrate diversity, structure and function from an evolutionary perspective. Topics covered will include development, physiology, ecology, behavior and conservation. Spring.

Restriction(s):

Must not be in the following Major(s): Must be in the following Major(s): App Math - Biology, Biology, Biology

Corequisite(s): BIOL 371L

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C-)

BIOL 371L Vertebrate Biology and Anatomy Lab **credit(s): 1**
Taken concurrently with BIOL 371.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): BIOL 371

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C-or BIOL 207, minimum grade: C-)

BIOL 374 Immunology **credit(s): 3**

An introduction to the cellular and molecular basis of the immune response. Topics will include structures and interactions of molecules in the immune system, generation of diversity in immune specificity, cellular immunology, and the basis of immunity and autoimmune diseases. Spring.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 374L Immunology Lab **credit(s): 1**

Taken concurrently with BIOL 374 when laboratory is offered.

Corequisite(s): BIOL 374

BIOL 375 Virology **credit(s): 3**

Viral evolution, replication, virus-host interactions, epidemiology, and lateral gene transfer are covered. Spring.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 376 Cellular Neurophysiology **credit(s): 3**

This course provides an in-depth exploration of the cellular mechanisms underlying the functions of the nervous system. Topics covered include the electrical and chemical signaling properties of neurons, synaptic transmission, and neural plasticity. Students will also examine current research in the field of neurophysiology and develop an understanding of the relationship between cellular processes and behavior.

Prerequisite(s): NEUR 201, minimum grade: C- or BIOL 205, minimum grade: C-

BIOL 380 Special Topics: **credit(s): 0-6**

Course repeatable for 8 credit.

This course may be repeated as long as the content is different than other occurrences of enrollment. If course is not taught by a Gonzaga faculty member, a limited number of credits can be applied to Biology electives: 5 for BS, 3 for BA, 1 for minor. Study abroad and School for Field Studies courses are examples.

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Prerequisite(s): BIOL 205 or BIOL 206 or BIOL 207

BIOL 390 Directed Reading **credit(s): 1-4**

Course repeatable for 6 credit.

Topic to be determined by instructor.

BIOL 395 Research Assistantship **credit(s): 0**

Course repeatable 20 time.

Undergraduate research assistantships are opportunities for student to earn a stipend while performing independent research in the laboratory of a Biology or Chemistry & Biochemistry faculty member. By Department Chair permission only.

BIOL 399 Advanced Topic: **credit(s): 2**

Course repeatable for 4 credit.

An introduction to primary research literature on specific biological topics. Students will write a paper that has as its foundation primary literature. Students will utilize their oral communication skills to explain the background of a given biology topic and lead discussions of the primary literature. Topics will vary. Course should be taken Junior year and must be completed with a C- grade or better prior to taking BIOL 499. Pre-requisites vary depending on topic. Course can only be repeated with permission from the Biology Department Chair. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology

Must be the following Class(es): Junior

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C-or BIOL 207, minimum grade: C-) and (BIOL 205L, minimum grade: C- or BIOL 206L, minimum grade: C-or BIOL 207L, minimum grade: C-)

BIOL 403 Marine Biology **credit(s): 3**

Students will explore the biology of marine systems. Topics will include atmospheric and climate modeling, fluid dynamics, physiology, evolution of diversity, ecology, molecular biology, economics, and environmental science. Offered upon sufficient demand.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 403

Corequisite(s): BIOL 403L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 403L Marine Biology Lab **credit(s): 1**

Taken concurrently with BIOL 403 when laboratory is offered.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Corequisite(s): BIOL 403

BIOL 404 Freshwater Biology **credit(s): 3**

for 3 credit.3 time.

An introduction the physical, chemical, geological, and human factors which influence freshwater organisms and their communities. After completion of the course students will be

competent in application of ecological concepts to freshwater systems and to understand the impacts of human activities on freshwater ecosystems.

Equivalent(s): ENVS 408

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Corequisite(s): BIOL 404L

Prerequisite(s): BIOL 206, minimum grade: C- and BIOL 206L, minimum grade: C-

BIOL 404L Freshwater Biology Lab

credit(s): 1

for 1 credit.1 time.

Taken concurrently with BIOL 404. Lab will emphasize field techniques, sample identification, and

scientific inquiry.

Fulfills the following degree requirement(s): BIOL - Elective

Equivalent(s): ENVS 408L

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Corequisite(s): BIOL 404

Prerequisite(s): BIOL 206, minimum grade: C- and BIOL 206L, minimum grade: C-

BIOL 405L Advanced Phage Research Lab

credit(s): 1

Course repeatable for 4 credit.

This course provides students with the opportunity to pursue research on bacterial viruses, or bacteriophages. Students will work independently or in small teams to address questions chosen collaboratively by the students and the instructor. The course is aimed at students who are interested in molecular biology or bioinformatics research and those seeking additional experience in a research setting. Interested students should contact the instructor prior to registration to plan a research proposal. This course may be taken up to four times with Department Chair permission. Fall and Spring. Offered upon sufficient demand.

Prerequisite(s): BIOL 105L and (BIOL 106 or BIOL 207) and BIOL 207L

BIOL 420 Physiological Ecology

credit(s): 3

This course will examine the interactions between organismal function and the physical environment. Topics include: physiological and evolutionary adaptations to extreme environments (high altitudes, deep oceans, and deserts), physiological determinants of patterns of diversity, limits to performance and environmental tolerance, and physiological responses to climate change. Fall, even years.

Prerequisite(s): BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-

BIOL 425 Ecotoxicology

credit(s): 3

This course provides an overview of pollutants in different environments, their movement through these environments, and the effects these pollutants have on organisms at the molecular, cellular, individual, population, and ecosystem levels. Numerous case studies on

specific aspects of environmental toxicology in the US will be examined throughout the course. Students will also be introduced to how toxicology is linked to environmental policies, climate change, and environmental justice.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 409

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Corequisite(s): BIOL 425L

Prerequisite(s): BIOL 205 or BIOL 206 or BIOL 207

BIOL 425L Ecotoxicology Lab

credit(s): 1

Taken concurrently with BIOL 425L. Labs will focus on methodology, instrumentation, data analyses, and writing scientific reports.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 409L

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Corequisite(s): BIOL 425

Prerequisite(s): BIOL 205 or BIOL 206 or BIOL 207

BIOL 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

BIOL 440 Biochemistry I

credit(s): 3

Lectures on the structure and function of the major classes of biomolecules (carbohydrates, proteins, and nucleic acids) with an emphasis on proteins and enzymology. The central metabolic pathways of glycolysis, gluconeogenesis, and the citric acid cycle are discussed from a mechanistic, energetic, and regulatory viewpoint. Offered upon sufficient demand.

Prerequisite(s): BIOL 207 and CHEM 231

BIOL 441 Advanced Physiology

credit(s): 3

Course repeatable for 6 credit.

Physiological mechanisms, processes and responses of animals. Physical, chemical and biochemical principles common to physiological systems, such as respiration, excretion, and metabolism, will be covered. Goals of the course are to reveal the mechanisms, adaptive significance, and evolution of physiological systems using a comparative approach. This course

may be repeated once as long as the content is different than the first occurrence of enrollment. Fall, odd years.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C-

BIOL 441L Advanced Physiology Lab

credit(s): 1

Course repeatable for 2 credit.

Taken concurrently with BIOL 441 when laboratory is offered.

Corequisite(s): BIOL 441

BIOL 443L Biochemistry Laboratory I

credit(s): 2

An investigation of the techniques used to examine biomolecules and biochemical systems.

Students perform integrated laboratory experiments in biochemistry. Offered upon sufficient demand.

Prerequisite(s): BIOL 440 or CHEM 440

BIOL 445 Biochemistry II

credit(s): 3

Continuation of BIOL 440, including an examination of the primary processes of cellular energy production, oxidative phosphorylation and photosynthesis. The major metabolic pathways of carbohydrates, lipids, amino acids and nucleotides are covered. Offered upon sufficient demand.

Prerequisite(s): BIOL 440

BIOL 451 Comparative Endocrinology

credit(s): 3

A comparative study of the structure and function of hormones across a wide variety of taxa (emphasizing vertebrates), including secretion and regulation of hormones, mechanisms of action, and integration of hormones into biological processes. Spring, even years.

Corequisite(s): BIOL 451L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 451L Comparative Endocrinology Lab

credit(s): 1

Taken concurrently with BIOL 451 when laboratory is offered.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

Corequisite(s): BIOL 451

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 456 Molecular Biology

credit(s): 3

This course explores experimental strategies and techniques for discovering how genes function at the molecular level. The course integrates genetics and biochemistry focusing especially on the relationship between DNA, RNA and protein. Fall.

Corequisite(s): BIOL 456L

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C- and CHEM 230, minimum grade: C-

BIOL 456L Molecular Biology Lab

credit(s): 1

Labs focus on the construction, manipulation, and analysis of recombinant DNA molecules.

Taken concurrently with BIOL 456.

Corequisite(s): BIOL 456

BIOL 484 Research Seminar **credit(s): 1**

This class is designed to expose students to various areas of biology research and to the different communication forms of that research. Graduate school is a fundamental part of the biology research pathway and therefore this course will help students to become familiar with the graduate school process. The format of the class will include seminars and class meetings. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BIOL 106, minimum grade: C- and (BIOL 205, minimum grade: C- or BIOL 206, minimum grade: C-or BIOL 207, minimum grade: C-)

BIOL 490 Directed Reading **credit(s): 1-4**

Course repeatable for 12 credit.

Reading material will be selected by the student after consultation with a faculty member in the department. A maximum of six credits of any combination of BIOL 390, BIOL 490, BIOL 496, and BIOL 498 can be applied to Biology electives. By permission only.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-and BIOL 207, minimum grade: C-

BIOL 495 Senior Evaluation **credit(s): 0**

Course repeatable 3 time.

Required of all majors. Students will take the Major Field Test in Biology in their senior year. Students must score at or above the 20th percentile to pass the course. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Biology, Biology

Must be the following Class(es): Senior

Corequisite(s): BIOL 499

BIOL 496 Biological Resch Techniques **credit(s): 1-3**

Course repeatable for 12 credit.

An introduction to some of the experimental techniques used in biological research. Course content will vary by instructor. A maximum of six credits of any combination of BIOL 490, BIOL 496, and BIOL 498 can be applied to Biology electives. Offered upon sufficient demand.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C-and BIOL 207, minimum grade: C-

BIOL 497 Biology Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional work experience in a biology-related field. Students are responsible for arranging placement opportunities, and gaining approval from a supervising faculty member in the Biology department. This course does not satisfy any requirements for the Biology major or minor. Satisfactory /Unsatisfactory grading only.

Restriction(s):

Must be in the following Major(s): Biology, Biology, Biology

Must be the following Class(es): Junior, Senior

BIOL 498 Undergraduate Research**credit(s): 0-6**

Course repeatable for 12 credit.

This course provides the motivated student with the opportunity to conduct an independent research project under the direction of a Biology Department faculty member. A maximum of six credits of any combination of BIOL 390, BIOL 490, BIOL 496, and BIOL 498 can be applied to Biology electives. Fall and Spring.

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 207, minimum grade: C-

BIOL 499 Senior Colloquium**credit(s): 1**

Required of all majors. This course meets once per week to discuss biological issues relevant to society. Students must complete all 200-level major requirements and BIOL 399 with C- grades or better to take this senior level course. Taken concurrently with BIOL 495. Fall and Spring.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 205L, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 206L, minimum grade: C- and BIOL 207, minimum grade: C- and BIOL 207L, minimum grade: C- and BIOL 399, minimum grade: C-.

Restriction(s):

Must be the following Class(es): Senior

Corequisite(s): BIOL 495

Prerequisite(s): BIOL 106, minimum grade: C- and BIOL 205, minimum grade: C- and BIOL 205L, minimum grade: C- and BIOL 206, minimum grade: C- and BIOL 206L, minimum grade: C- and BIOL 207, minimum grade: C- and BIOL 207L, minimum grade: C- and BIOL 399, minimum grade: C-

Catholic Studies

Director: Joe Mudd

Associate Director: Bryan Pham, S.J.

The program offers one minor:

Minor in Catholic Studies

The Catholic Studies program at Gonzaga University offers an interdisciplinary exploration of the Catholic intellectual tradition. In our program, students explore both the development of the teachings and practices of the Roman Catholic Church, and the ways in which the Catholic intellectual tradition brings those teachings and practices into dialogue with various cultures.

Courses examine Catholic history, theological doctrines, liturgy, social teachings, ecumenical and interreligious dialogues, literature, and the arts. Students who choose to study abroad at Gonzaga in Florence can complete most of the minor in Italy. In addition to our academic offerings, students participate in a variety of co-curricular opportunities that engage the Catholic intellectual tradition, including the Catholic Studies Speaker Series. Students in the program also frequently participate in student clubs and various offerings in University Ministry.

The study of Catholicism not only expands your awareness of various histories and cultures but also builds critical thinking skills, preparing you for a future in law, religious ministry, religious education, social justice advocacy, and many other careers. A minor in Catholic studies complements majors across the university with an interdisciplinary program of study that adds depth to the undergraduate experience. Previous minors have gone on to careers in Catholic primary and secondary education, law, engineering, and ministry.

The following courses are required for the minor and may also be used to fulfill courses required by the University Core. Students are also required to complete a portfolio as a capstone project. NOTE: No more than nine (9) credits cross-listed in any single department (*excluding* the required lower division course) can count toward elective credit.

Minor in Catholic Studies: 22

Lower Division

CATH 499 Catholic Studies Symposium 3 credits

One of the following three Scripture courses: 3 credits

CATH 156/RELI 126 Introduction to Christian Theology

CATH 258/RELI 228 Catholicism

CATH 260/RELI 230 Contemporary Church

Three of the following 14 courses: 9 credits

- CATH 111/MUSC 171 Music in the Humanities
- CATH 117/MUSC 157 Liturgical Music Ensemble
(only 3 total credits count for elective)
- CATH 151/RELI 103 The New Testament
- CATH 152/RELI 107 Gospels: Life/Teachings of Jesus
- CATH 240/PHIL 280 Persons and Conduct
- CATH 250/RELI 202 Spirituality of Apostle Paul
- CATH 255/RELI 276 Principles of Christian Ethics
- CATH 256/RELI 226 Challenges in Catholic Theology
- CATH 257/RELI 227 Theology in Global Contexts
- CATH 262/RELI 232 Global Christologies
- CATH 263/RELI 233 Christian Spirituality
- CATH 265/RELI 235 Christian Mysticism
- CATH 266/RELI 236 God and Evil
- CATH 269/RELI 267 Early Christianity

Upper Division

Three of the following 14 courses: 9 credits

- CATH 331/HIST 311 Medieval Europe (Florence)
- CATH 332/HIST 312 Renaissance Europe (Florence)
- CATH 333/HIST 321 Irish History Since 1500
- CATH 334/HIST 322 20th Century Northern Ireland
- CATH 335/HIST 354 American Latina/o History
- CATH 340/PHIL 310 History of Medieval Philosophy
- CATH 355/RELI 342 Trinity
- CATH 356/RELI 341 Christian Morality and Eating
- CATH 357/RELI 376 Christian Sexual Ethics
- CATH 359/RELI 339 Ignatian Spirituality
- CATH 441/PHIL 403 Christian Metaphysics
- CATH 443/PHIL 443 Dorothy Day and the Catholic Worker Movement
- CATH 447/PHIL 467 Faith and Reason
- CATH 432/RELI 432 CIS: Catholic Social Thought: Public Health

CATH 498 Catholic Studies Capstone 1 credit

Courses:

CATH 111 Music in the Humanities credit(s): 3

Historical survey of the development of music from antiquity to the present. Relationships between the other arts, philosophies, and social structures presented in context with the evolution of music. Emphasizes the understanding of music history through lecture, performance, and recordings.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Fine Arts and Design, Core: Global Studies

Equivalent(s): MUSC 171

CATH 117 Liturgical Music Ensemble credit(s): 1

Course repeatable for 8 credit.

The Liturgical Music Ensemble consists of singers and instrumentalists who lead music at the university's festive liturgies, student Masses, ecumenical liturgies, and interfaith services. The course utilizes a diverse repertoire of sacred music, including new compositions, contemporary arrangements, repertoire from the Catholic tradition, hymns, anthems, Mass settings, gospel music, and repertoire from global cultures.

Equivalent(s): MUSC 157

CATH 151 New Testament credit(s): 3

An exploration of the world and environment of the New Testament writers as well as Christianity's roots in the Jewish tradition. A basic introduction to the writings of the New Testament. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Christian or Catholic

Equivalent(s): RELI 103

CATH 152 Gospels: Life and Teachings of Jesus credit(s): 3

Who was Jesus? An academic study of Jesus as he is presented in the three synoptic gospels (Matthew, Mark, Luke) in the New Testament. Specific attention is given to the unique perspectives of each gospel, and to the ethical implications of Jesus's life and teachings. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): RELI 107

CATH 156 Introduction to Christian Theology credit(s): 3

An introduction to the academic discipline of Christian theology and the way in which the Christian community makes believing possible and meaningful for contemporary people of faith. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 126

CATH 190 Directed Study credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by faculty.

CLAS 228 Catholicism **credit(s): 3**

Exploration of the identity of the Roman Catholic tradition with emphasis on Catholicism's dialogue with the contemporary world. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 228

CLAS 240 Persons and Conduct **credit(s): 3**

Two basic dimensions of philosophical investigation are inquiry into the nature and meaning of our being human (the philosophy of human nature) and inquiry into the right life and conduct of a human being (ethics). This course undertakes these closely related investigations from a personalist perspective.

Restriction(s):

Must be in the following Major(s): Nursing

Equivalent(s): PHIL 280

CATH 250 Spirituality of Apostle Paul **credit(s): 3**

Explore Paul's personal experience of faith in what he perceives as the cosmos altering significance of the life and death of Jesus of Nazareth on the one hand, and the practical implications of the Christ event for living transformed lives in the setting of communal fellowship, on the other. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): RELI 202

CATH 255 Principles of Christian Ethics **credit(s): 3**

How are Christians to fashion moral choices, character, and communities? What are the sources, tools, and rules of Christian ethics? What kind of justice does the Christian faith demand? Offered every semester.

Fulfills the following degree requirement(s): RELI - Religious Ethics, Core: Social Justice, Core: Ethics

Equivalent(s): RELI 276

CATH 256 Challenges in Catholic Theology **credit(s): 3**

This course aims to explore the teachings and debates around several classical and perennial themes in Christian theology around which significant dialogue and debate exist today. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 226

CATH 257 Theology in Global Contexts **credit(s): 3**

A course in Christian and Catholic traditions with a Global Studies designation (GS), which investigates opportunities and challenges posed by religious and cultural diversity in our world today. Topics include Theologies of Religion, Culture, World Christianity, and Catholic Social Teaching. Offered most summers.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic, Core: Global Studies

Equivalent(s): RELI 227

CATH 260 Contemporary Church credit(s): 3

A theological and historical examination of the contemporary church from the perspective of the Second Vatican Council.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, RELI - Theology & Spirituality

Equivalent(s): RELI 230

CATH 262 Global Christologies credit(s): 3

Examine how Christian theological interpretations of the significance of the person of Jesus of Nazareth are shaped by the context in which church communities live. After examining Christological method, the biblical witness to Jesus, and early Christological doctrines, the course moves continent by continent to examine different contextual Christologies and the ways they call the Christian community to social transformation toward the reign of God. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Social Justice, Core: Christian or Catholic, Core: Global Studies

Equivalent(s): RELI 232

CATH 263 Christian Spirituality credit(s): 3

The sources, nature, and forms of Christian spirituality historically and within the contemporary context. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 233

CATH 265 Christian Mysticism credit(s): 3

Explore the history, theology and practice of Christian mysticism from the early Church to the present day. Students are guided by the curriculum of the contemplative master, Thomas Merton, who situates the discipline of mysticism in the center of Christian life, and in relation to tradition, doctrine, worship, spiritual experience and ethical action. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 235

CATH 266 God and Evil credit(s): 3

Explore the problem of God and the experience of evil from within the Christian theological tradition. Our exploration includes an examination of theological texts, poetry, film and the visual arts. Offered every other year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 236

CATH 269 Early Christianity credit(s): 3

Focus on the rise of Christianity in the religious pluralism of late antiquity, and the way in which the early Christians, as citizens of a non-Christian culture, defined themselves, the church and their place in society. Examine the philosophical, social and religious context in the Roman

empire, and central theological and institutional developments in the church from its origin to the fourth century. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Christian or Catholic

Equivalent(s): RELI 267

CATH 290 Directed Study

credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by faculty.

CATH 331 Medieval Europe

credit(s): 3

Developments in the first flowering of western Europe circa 500-1350, including feudalism, the rise of representative assemblies, the commercial revolution and the papal monarchy. Gonzaga in Florence only.

Equivalent(s): HIST 311, ITAL 366

CATH 332 Renaissance Europe

credit(s): 3

A history of western Europe circa 1350-1550, examining the political, religious, social, and economic context for the cultural achievements of the humanists, artists, dramatists, scientists, architects, and educators of the age of Joan of Arc, Michelangelo, the Tudors, and the Medici.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): HIST 312, ITAL 367

CATH 333 Irish History Since 1500

credit(s): 3

This course has two purposes: to provide a broad overview of the major historical developments in Ireland from the seventeenth century to the twentieth century, and to introduce students to the historiographical debates that shape the study of modern Irish history. We will read about and discuss pivotal moments in Irish history during this time period, trying to understand what the primary agents of historical change in the country were, and what variable factors might have allowed the country's history to follow a different path.

Equivalent(s): HIST 321

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CATH 334 20th Century Northern Ireland

credit(s): 3

This course explores the troubled history of Northern Ireland from the perspective of the two communities that live within it, as well as that of the British and Irish governments. It examines key events in Northern Ireland's recent history such as Bloody Sunday, internment, the murder of Lord Mountbatten, the hunger strikes, the Enniskillen and Omagh bombings, and the steps to the Peace Process. The course emphasizes how peace has been achieved in the wake of the "Troubles" as it examines whether the Good Friday Agreement can offer lessons to other conflict zones around the world.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities

Equivalent(s): HIST 322, INST 348

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CATH 335 American Latina/o History

credit(s): 3

An introduction to the history of American Latina/o communities from the nineteenth-century wars that brought northern Mexico, Cuba, and Puerto Rico under U.S. control; through the first

major waves of immigration that brought Mexicans and other Latinas/os to the U.S.; through multiple generations of hardship, cultural transformation, and political mobilization; and finally to the issues and challenges of the early twenty-first century. Themes and topics include military conquest and resistance, immigration, discrimination and segregation, labor and migration, community formation, gender and sexuality, military service, religious faith and activism, civil rights activism, the farmworker movement, cultural nationalism, the evolution of diverse Latinx identities, and the overarching context of U.S. relations with Latin America.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, HIST – Latin American History

Equivalent(s): HIST 354

CATH 340 History of Medieval Philosophy

credit(s): 3

A survey of the major philosophical movements in the Latin, Greek, and Arabic traditions from the seventh to the fourteenth centuries. Spring.

Equivalent(s): PHIL 310

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 305

CATH 355 Trinity

credit(s): 3

An introduction to the theology of the Trinity in its historical developments and contemporary interpretations, this course examines the content and method of Christian theology by focusing on the doctrine of the Trinity. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 342

CATH 356 Christian Morality and Eating

credit(s): 3

Why biblical and Christian morality demands just and sustainable agricultural systems that feed the hungry, compensate and protect workers, and treat animals humanely. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): RELI 341

CATH 357 Christian Sexual Ethics

credit(s): 3

Explore Christian perspectives on the ethical dimensions of human sexuality and issues of gender. Offered every semester.

Fulfills the following degree requirement(s): HEAL - Electives, RELI - Religious Ethics, Core: Ethics

Equivalent(s): RELI 376, WGST 353

CATH 359 Ignatian Spirituality

credit(s): 3

This course is designed to introduce students of Christian and non-Christian backgrounds to Ignatian Spirituality. The major part of the course will study the dynamics of the Spiritual Exercises of Saint Ignatius by exploring the Ignatian themes of spiritual discernment, contemplation in action, and finding God in all things. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): RELI 339

CATH 390 Directed Study **credit(s): 1-3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

CATH 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

CATH 441 Christian Metaphysics **credit(s): 3**

A philosophical articulation of the Christian worldview is provided by classical metaphysics as developed in the Thomistic tradition. This seminar will study the hylomorphic principles of nature, the cosmological argument for the existence of God, the real distinction of being and essence, the nature of divine causality, the analogy of being, ontological participation, and the transcendental properties of being. Fall, every year.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Equivalent(s): PHIL 403

Prerequisite(s): PHIL 201

CATH 443: Dorothy Day and the Catholic Worker Movement **credit(s): 3**

This course investigates the life, times, and leading ideas of Dorothy Day and the Catholic Worker Movement in a variety of disciplinary contexts, including history, philosophy, and religious, women's, and social justice studies.

Equivalent(s): PHIL 443

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

CATH 447 Faith and Reason **credit(s): 3**

This course will address a cluster of fundamental problems of faith and reason--the nature of knowledge, especially in connection with religious claims, evidence for the existence of God, the relevance of recent advances in cosmology to the Christian world view, the problem of evil and suffering, and the challenge of atheism.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, Core: Core Integration Seminar

Equivalent(s): PHIL 467

Prerequisite(s): PHIL 201

CATH 489 Catholic Studies Symposium

credit(s): 3

A capstone course in which students will integrate their experiences in other Catholic Studies courses. Student will be responsible for writing a thesis under the direction of the instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior

CATH 490 Directed Study

credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by faculty.

Chemistry and Biochemistry

Chairperson: Nicole Moore

Dr. Scholl Distinguished Professor: Jeffrey Watson

Professors: D. Cleary, D. McMinn (Emeritus), K. Nakamaye (Emeritus), E. Ross, J. Shepherd, J. Watson

Associate Professors: J. Cronk, G. Gidofalvi, M. Matsumoto, S. Warren,

Assistant Professors: W. Bailey, S. Cravens, M. Mathews, L. Paziienza, T. Guasco

Senior Lecturers: G. D'Ambruoso, A. Scruggs

The Department offers three degrees, two majors and one minor:

Bachelor of Science, Chemistry major (ACS approved)

Bachelor of Science, Biochemistry major (ACS approved)

Bachelor of Arts, Chemistry major

Minor in Chemistry

Students are encouraged to visit the Departmental website to learn more about careers in chemistry and biochemistry. For those interested in teaching chemistry at the secondary level, the Department suggests the B.A. degree along with the teacher certification program in the School of Education.

Although Gonzaga University does not currently offer a program in chemical engineering, students interested in chemical engineering are encouraged to combine a B.S. degree in Chemistry with supporting courses from the School of Engineering and Applied Science. This plan of study would position students to further their education with an M.S. or Ph.D. in Chemical Engineering from an additional institution.

B.S. Major in Chemistry (ACS approved): 68 Credits

Lower Division 38 credits

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
CHEM 102 General Chemistry II	3 credits
CHEM 102L General Chemistry II Lab	1 credit
CHEM 230 Organic Chemistry I	3 credits
CHEM 230L Organic Chemistry I Lab	1 credit
CHEM 231 Organic Chemistry II	3 credits
CHEM 231L Organic Chemistry II Lab	1 credit
CHEM 285 Intro to the Chemical Sciences	1 credit
MATH 157 Calculus-Analytic Geometry I	4 credits
MATH 258 Calculus-Analytic Geometry II	4 credits
PHYS 121 Scientific Physics I	4 credits

PHYS 121L Scientific Physics I Lab	1 credit
PHYS 122 Scientific Physics II	4 credits
PHYS 122L Scientific Physics II Lab	1 credit
PHYS 201 Mathematical Methods	3 credits
Upper Division 30 credits	
CHEM 305 Inorganic Chemistry	3 credits
CHEM 307 Biochemistry	3 credits
CHEM 307L Biochemistry Lab	1 credit
CHEM 310 Analytical Chemistry	3 credits
CHEM 310L Analytical Chemistry Lab	1 credit
CHEM 356 Thermodynamics & Kinetics	3 credits
CHEM 356L Thermodynamics & Kinetics Lab	1 credit
CHEM 357 Quantum Chemistry	3 credits
CHEM 357L Quantum Chemistry Lab	1 credit
CHEM 358L Advanced Chemistry Lab	2 credits
CHEM 399 Advanced Topic	2 credits
CHEM 405-480	4 credits
CHEM 485 Seminar	1 credit
CHEM 498A & CHEM 498B Thesis I & Thesis II	2 credits

B.S. Major in Biochemistry 72 Credits

Lower Division 42 credits	
CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
CHEM 102 General Chemistry I	3 credits
CHEM 102L General Chemistry I Lab	1 credit
CHEM 230 Organic Chemistry I	3 credits
CHEM 230L Organic Chemistry I Lab	1 credit
CHEM 231 Organic Chemistry II	3 credits
CHEM 231L Organic Chemistry II Lab	1 credit
CHEM 285 Intro to the Chemical Sciences ⁽⁵⁾	1 credit
BIOL 105 Information Flow in Biological Systems	3 credits
BIOL 105L Information Flow in Biological Systems Lab	1 credit
BIOL 106 Energy Flow in Biological Systems	3 credits
MATH 157 Calculus-Analytic Geometry I	4 credits
MATH 258 Calculus-Analytic Geometry II	4 credits
PHYS 121 Scientific Physics I	4 credits
PHYS 121L Scientific Physics I Lab	1 credit
PHYS 122 Scientific Physics II	4 credits
PHYS 122L Scientific Physics II Lab	1 credit
Upper Division 30 credits	
CHEM 305 Inorganic Chemistry	3 credits
CHEM 307 Biochemistry	3 credits

CHEM 307L Biochemistry Lab	1 credit
CHEM 308 Biochemistry II	3 credits
CHEM 310 Analytical Chemistry	3 credits
CHEM 310L Analytical Chemistry Lab	1 credit
CHEM 345L Advanced Biochemistry Lab	1 credit
CHEM 356 Thermodynamics & Kinetics	3 credits
CHEM 356L Thermodynamics & Kinetics Lab	1 credit
CHEM 399 Advanced Topic	2 credits
CHEM 405-480 Special Topics in Chemistry (4 credits total)	2 credits
CHEM 485 Seminar	1 credit
CHEM 498A & CHEM 498B Thesis I & Thesis II	2 credits

B.A. Major in Chemistry: 56 Credits

Lower Division 33 credits

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
CHEM 102 General Chemistry II	3 credits
CHEM 102L General Chemistry II Lab	1 credit
CHEM 230 Organic Chemistry I	3 credits
CHEM 230L Organic Chemistry I Lab	1 credit
CHEM 231 Organic Chemistry II	3 credits
CHEM 231L Organic Chemistry II Lab	1 credit
CHEM 285 Intro to the Chemical Sciences	1 credit
MATH 157 Calculus-Analytic Geometry I	4 credits
MATH 258 Calculus-Analytic Geometry II	4 credits
One of the following two sets of courses:	10 credits
PHYS 111/PHYS111L and PHYS 112/112L	
PHYS 121/121L and PHYS 122/122L	

Upper Division 23 credits

CHEM 305 Inorganic Chemistry	3 credits
CHEM 307 Biochemistry I	3 credits
CHEM 307L Biochemistry Lab I	1 credit
CHEM 310 Analytical Chemistry	3 credits
CHEM 310L Analytical Chemistry Lab	2 credits
CHEM 356 Thermodynamics & Kinetics	3 credits
CHEM 356L Thermodynamics & Kinetics Lab	1 credit
CHEM 405-480	4 credits
CHEM 485 Seminar	1 credit
CHEM 488 Senior Literature Review	1 credit

Minor in Chemistry: 32-37 Credits

Required Foundational Courses: 23 credits

CHEM 101 General Chemistry	3 credits
CHEM 101L General Chemistry Lab	1 credit
CHEM 102 General Chemistry I	3 credits
CHEM 102L General Chemistry I Lab	1 credit
CHEM 230 Organic Chemistry I	3 credits
CHEM 230L Organic Chemistry I Lab	1 credit
MATH 157 Calculus and Analytical Geometry I	4 credits
CHEM 305 Inorganic Chemistry	3 credits
One of the following two courses:	4 credits
PHYS 111 General Physics I	
PHYS 121 Scientific Physics I	

One of the following three options: 12-17 credits

Option One: Biochemistry

CHEM 231 Organic Chemistry II (3 credits)	
CHEM 231L Organic Chemistry II Lab (1 credit)	
CHEM 307 Biochemistry I (3 credits)	
CHEM 307L Biochemistry I Lab (1 credit)	
CHEM 308 Biochemistry II (3 credits)	
CHEM 4xx Special Topics (405-480) (2 credits)	

12 credits

Option Two: Physical Chemistry

CHEM 310 Analytical Chemistry (3 credits)	
CHEM 310L Analytical Chemistry Lab (2 credits)	
One of the following two options: (4 credits)	
CHEM 356/ CHEM 356L Thermodynamics & Kinetics and Lab	
CHEM 357/ CHEM 357L Quantum Chemistry and Lab	
MATH 258 Calculus and Analytical Geometry II (4 credits)	
PHYS 122 Scientific Physics II (4 credits)	

17 credits

*Note: CHEM 357 requires both PHYS 121 and PHYS 201 as prereqs

Option Three: Environmental Chemistry

ENVS 202 Environmental Chemistry (3 credits)	
ENVS 202L Environmental Chemistry Lab (1 credit)	
CHEM 310 Analytical Chemistry (3 credits)	
CHEM 310L Analytical Chemistry Lab (1 credits)	
CHEM 358L Advanced Chemistry Lab (2 credits)	
CHEM (405-480) (2 credits)	

13 credits

Courses:

CHEM 101 General Chemistry I credit(s): 3

This course will offer an introduction to the fundamental laws and theories of chemistry and their applications. Topics will include atomic and molecular structure, properties of elements and molecules, chemical reactions, gases, thermochemistry, and chemical equilibrium. Designed for science and engineering majors. Taken concurrently with CHEM 101L. Fall and Spring.

Equivalent(s): CHEM 105

Corequisite(s): CHEM 101L

CHEM 101L General Chemistry I Lab credit(s): 1

This laboratory course that emphasizes experimental techniques designed to accompany General Chemistry I. Taken concurrently with CHEM 101. One laboratory per week. Fall and Spring.

Equivalent(s): CHEM 105L

Corequisite(s): CHEM 101

CHEM 102 General Chemistry II credit(s): 3

This course will offer further study and a quantitative treatment of the fundamental laws and theories of chemistry and their applications. Topics will include thermochemistry, phase transitions, kinetics, equilibrium, thermodynamics, acid-base chemistry, electrochemistry, and nuclear chemistry. Designed for science majors. Taken concurrently with CHEM 102L. Spring.

Corequisite(s): CHEM 102L

Prerequisite(s): CHEM 101, minimum grade: C-

CHEM 102L General Chemistry II Lab credit(s): 1

This is a laboratory course that emphasizes experimental techniques designed to accompany General Chemistry II. Wherever appropriate, computer skills are introduced and applied to data collection and analysis. Taken concurrently with CHEM 102. One laboratory per week. Spring.

Corequisite(s): CHEM 102

Prerequisite(s): CHEM 101L, minimum grade: C-

CHEM 104 Scientific Inquiry credit(s): 2

This lecture and lab course content will be determined by the instructor to meet the learning objectives of the Scientific Inquiry requirement of the University Core. Fall and Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Restriction(s):

Must be the following Class(es): Freshman

Corequisite(s): CHEM 104L

CHEM 104L Scientific Inquiry Lab credit(s): 1

Course repeatable for 2 credit.

Taken concurrently with CHEM 104. Fall and Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): CHEM 104

CHEM 123 Environmental Chemistry **credit(s): 3**

This course will cover the fundamental principles of chemistry necessary to understand the source, transport, and fate of substances in the environment due to human activity. Additional topics will be chosen by the instructor but may include the environmental implications of various energy-generation methods; the chemistry of the atmosphere, hydrosphere, and lithosphere; climate change; and water quality, pollution, and treatment of water sources. Taken concurrently with CHEM 123L. Spring.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Corequisite(s): CHEM 123L

CHEM 123L Environmental Chemistry Lab **credit(s): 1**

See CHEM 123 course description. Taken concurrently with CHEM 123. Spring.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Corequisite(s): CHEM 123

CHEM 190 Study Abroad Special Topics **credit(s): 0-6**

Course repeatable for 12 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): Science class - non-sci Majors

CHEM 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

CHEM 198 Topics in Chemistry **credit(s): 3**

Course repeatable for 9 credit.

This lecture-only course is designed for non-science majors. Different subfields of chemistry will be explored depending on the instructor. Upon sufficient demand.

Fulfills the following degree requirement(s): Science class - non-sci Majors

CHEM 205 Inorganic Chemistry **credit(s): 3**

Introduction to foundational concepts in inorganic chemistry with emphasis on atomic structure, bonding, and reactivity. Topics will include nuclear chemistry, quantum mechanics, periodic trends, covalent bonding, ionic bonding, metallic bonding, coordinate covalent bonding, acid-base chemistry, electrochemistry, and thermodynamics. Three lectures per week. Fall.

Prerequisite(s): CHEM 101, minimum grade: C-

CHEM 230 Organic Chemistry I **credit(s): 3**

Essential concepts in bonding and structure, acid-base chemistry, reactivity and synthesis of functional groups, nomenclature, and mechanisms of fundamental organic reactions. Three lectures and one recitation per week. Taken concurrently with CHEM 230L. Fall.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): CHEM 230L

Prerequisite(s): CHEM 101, minimum grade: C-

CHEM 230L Organic Chemistry Lab I **credit(s): 1**

Preparation and analysis of representative organic compounds. One laboratory per week. Taken concurrently with CHEM 230. Fall.

Corequisite(s): CHEM 230

Prerequisite(s): CHEM 101L, minimum grade: C-

CHEM 231 Organic Chemistry II **credit(s): 3**

Continuation of CHEM 230. A significant focus of the course is on aromatic compounds and carbonyl chemistry. Other topics include organometallic chemistry, radicals, mass spectrometry and synthetic polymers. Three lectures per week. Spring.

Corequisite(s): CHEM 231L

Prerequisite(s): CHEM 230, minimum grade: C-

CHEM 231L Organic Chemistry Lab II **credit(s): 1**

Preparation and analysis of representative organic compounds. Taken concurrently with CHEM 231. One laboratory per week. Spring.

Corequisite(s): CHEM 231

Prerequisite(s): CHEM 230L, minimum grade: C-

CHEM 245 Biochemistry **credit(s): 3**

Structure and function of the major classes of biomolecules (carbohydrates, lipids, proteins and nucleic acids). Fundamental concepts of protein structure and function, kinetics and enzymology, bioenergetics and thermodynamics, metabolism and regulation are discussed. Three lectures per week. Fall and Spring.

Corequisite(s): CHEM 245L

Prerequisite(s): CHEM 231 (or concurrent)

CHEM 245L Biochemistry Lab **credit(s): 1**

Laboratory methods and techniques relevant to biochemistry. One laboratory per week. Fall and Spring.

Corequisite(s): CHEM 245

Prerequisite(s): CHEM 231L (or concurrent)

CHEM 285 Introduction to Chemical Sciences **credit(s): 1**

This course introduces Chemistry and Biochemistry majors to the chemical sciences with an overview of specific subdisciplines in chemistry, research opportunities, various career paths, degree options, and professional organizations. This course also includes a focus on scientific ethics, the use of primary literature, and written science communication. One lecture per week. Fall.

Restriction(s):

Must be in the following Major(s): Chemistry, Chemistry, Chemistry (Biochem Option)

CHEM 290 Directed Reading **credit(s): 1-3**

Topic to be determined by instructor.

CHEM 295 Science Outreach **credit(s): 0**

Course repeatable 3 time.

The Biology and Chemistry departments run a variety of outreach programs that include class visits, field trip tours, special summer programs and more. All of our programs strive to engage participants with opportunities for hands-on scientific discovery and inspiration.

Equivalent(s): BIOL 295

CHEM 304 Practice in Lab Teaching **credit(s): 0 or 1**

Course repeatable for 4 credit.

Introduction to the methods of laboratory teaching. Emphasis on safety, time management, direct student-teacher interaction, and class presentation.

Prerequisite(s): CHEM 230

CHEM 305 Inorganic Chemistry **credit(s): 3**

This course builds from foundational concepts in inorganic chemistry to a more advanced understanding of atomic structure, bonding, and reactivity. Topics include periodic relationships, acid/base chemistry, electrochemistry, coordination compounds, inorganic reaction mechanisms, molecular symmetry, group theory, and nuclear chemistry. Spring.

Prerequisite(s): CHEM 102, minimum grade: C- and CHEM 230, minimum grade: C-

CHEM 307 Biochemistry I **credit(s): 3**

Structure and function of the major classes of biomolecules (carbohydrates, lipids, proteins, and nucleic acids). Fundamental concepts of protein structure and functions, kinetics and enzymology, bioenergetics and thermodynamics, metabolism and regulation are discussed.

Taken concurrently with CHEM 307L. Fall and Spring.

Corequisite(s): CHEM 307L

Prerequisite(s): CHEM 231, minimum grade: C- (or concurrent) and CHEM 102, minimum grade: C-

CHEM 307L Biochemistry I Lab **credit(s): 1**

Laboratory methods and techniques relevant to biochemistry. Taken concurrently with CHEM 307. One laboratory per week. Fall and Spring.

Corequisite(s): CHEM 307

Prerequisite(s): CHEM 231L, minimum grade: C- (or concurrent) and CHEM 102L, minimum grade: C-

CHEM 308 Biochemistry II **credit(s): 3**

Structure, function, mechanism and regulation of electron transport processes, core metabolism and information flow at an atomic and molecular level. Topics include electron transport chain, photosynthesis, core metabolic pathways of major macromolecules, and information flow from DNA to RNA proteins. Fall only.

Prerequisite(s): CHEM 307, minimum grade: C-

CHEM 310 Analytical Chemistry **credit(s): 3**

Principles of foundational analytical techniques and methods are presented in three lectures per week. These include gravimetric, volumetric, electrochemical, spectrometric,

chromatographic, and mass spectrometry topics as well as basic descriptive statistics. Taken concurrently with CHEM 310L. Fall.

Corequisite(s): CHEM 310L

Prerequisite(s): or CHEM 230, minimum grade: C-CHEM 102, minimum grade: C-

CHEM 310L Analytical Chemistry Lab

credit(s): 1

Laboratory experiments including titrations, gravimetric analysis, molecular and atomic spectroscopy, mass spectrometry, and chromatography. Sample preparation, instrumentation, data analysis, and reporting are emphasized. Taken concurrently with CHEM 310. One laboratory periods per week. Fall.

Corequisite(s): CHEM 310

Prerequisite(s): CHEM 230L, minimum grade: C- and CHEM 102, minimum grade: C- and CHEM 102L, minimum grade: C-

CHEM 345L Advanced Biochemistry Lab

credit(s): 3

In-depth exploration of concepts and techniques used to study biomolecules and biomolecular systems with additional emphasis on scientific writing and communication in biochemistry. Fulfills one Writing-Enriched (WE) designation in the University Core. Two laboratories per week. Fall.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): CHEM 307, minimum grade: C- and CHEM 307L, minimum grade: C-

CHEM 356 Thermodynamics and Kinetics

credit(s): 3

Kinetic theory of gases, thermodynamics, solutions, equilibrium, and statistical mechanics. Taken concurrently with CHEM 356L. Spring.

Corequisite(s): CHEM 356L

Prerequisite(s): CHEM 310, minimum grade: C- and MATH 157, minimum grade: C- and MATH 258, minimum grade: C-(and PHYS 111, minimum grade: C- or PHYS 121, minimum grade: C-)(and PHYS 112, minimum grade: C- or PHYS 122, minimum grade: C-)

CHEM 356L Thermodynamics and Kinetics Lab

credit(s): 1

Experimental work to introduce physical chemistry principles related to thermodynamics and kinetics. Emphasis on statistical analysis and interpretation of instrument-derived data. Taken concurrently with CHEM 356. One laboratory per week. Spring.

Corequisite(s): CHEM 356

Prerequisite(s): CHEM 310L, minimum grade: C-

CHEM 357 Quantum Chemistry

credit(s): 3

Postulates of quantum mechanics, solution of the Schrodinger equation for simple model systems, atomic and molecular structure and spectra, and symmetry. Taken concurrently with CHEM 357L. Fall.

Corequisite(s): CHEM 357L

Prerequisite(s): CHEM 310, minimum grade: C- and MATH 157, minimum grade: C- and MATH 258, minimum grade: C- and PHYS 121, minimum grade: C- and PHYS 122, minimum grade: C- and PHYS 201, minimum grade: C-

CHEM 357L Quantum Chemistry Lab

credit(s): 1

Experimental work to introduce physical chemistry principles related to molecular structure and spectroscopy. Emphasis on statistical analysis and interpretation of instrument-derived data.

Introduction to the use of molecular modeling software and software for solving complex mathematical problems. Taken concurrently with CHEM 357. One laboratory per week. Spring.

Corequisite(s): CHEM 357

Prerequisite(s): CHEM 310L, minimum grade: C-

CHEM 358L Advanced Chemistry Lab

credit(s): 2

In-depth laboratory course featuring projects integrating inorganic, organic, and analytical chemistry, and projects with discipline specific content for skill and background development. Literature engagement and scientific writing are emphasized. Projects are more open-ended than in the foundational laboratory courses and require increased student independence and proficiency in experimental design, execution, and data evaluation. Two laboratory periods per week. Spring.

Prerequisite(s): CHEM 305, minimum grade: C- (or concurrent) and CHEM 310L, minimum grade: C- and CHEM 356L, minimum grade: C- (or concurrent)

CHEM 390 Directed Research

credit(s): 0-3

Course repeatable for 9 credit.

Topic to be determined by instructor.

CHEM 395 Research Assistantship

credit(s): 0

Course repeatable 5 time.

Undergraduate research assistantships are opportunities for student to earn a stipend while performing independent research in the laboratory of a Biology or Chemistry & Biochemistry faculty member.

CHEM 399 Advanced Topics:

credit(s): 2

Course repeatable for 6 credit.

Courses focus on reading the primary literature in a particular content area, and will emphasize in-class discussion, writing, and/or presentations. Topics determined by instructor. Two lectures per week. Fall and Spring. Pre-requisites vary depending on topic.

CHEM 405 Special Topics in Chemistry

credit(s): 2

Course repeatable for 6 credit.

Topic determined by instructor. Two lectures per week. Fall and Spring. Pre-requisites vary depending on topic.

CHEM 407 Special Topics in Biochemistry

credit(s): 2

Course repeatable for 6 credit.

Topic determined by instructor. Two lectures per week. Fall and Spring. Pre-requisites vary depending on topic.

CHEM 408 RNA Chemistry and Biology

credit(s): 2

This course builds upon foundational topics introduced in CHEM 245 Biochemistry and CHEM 231 Organic Chemistry II to explore the biology, chemistry, and therapeutic uses of RNA. Emphasis placed on the determination of RNA structures, noncoding RNAs classes and their functions to relate gene expression in bacteria and eukaryotes, and the use of nucleic acid technology in therapeutics. The course involves the reading of primary and secondary literature and incorporates literature discussions. Two lectures per week.

Prerequisite(s): CHEM 245, minimum grade: C- and CHEM 231, minimum grade: C-

CHEM 415 Organometallic Chemistry **credit(s): 2**

This course builds on foundational topics introduced in CHEM 205 Inorganic Chemistry and CHEM 230 Organic Chemistry I to explore the synthesis, structure, bonding, and reactivity of organometallic complexes, compounds that contain at least one bond between a carbon atom and a metal. Emphasis placed on d-block organometallic compounds and how they are used as homogeneous catalysts for current industrially important organic transformations including hydrogenations, carbonylations, hydroformylations, metathesis, and alkene polymerizations. Two lectures per week.

Prerequisite(s): CHEM 205, minimum grade: C- and CHEM 230, minimum grade: C-

CHEM 424 DNA Damage and Repair **credit(s): 2**

This course builds upon foundational topics introduced in CHEM 245 Biochemistry and CHEM 231 Organic Chemistry II to explore the environmental and biological causes of DNA damage, the repercussions this has on disease development, and the enzymes that have evolved to maintain DNA integrity. Primary focus on the chemical mechanisms of DNA repair and intermolecular forces that imbue repair enzymes with remarkable specificity. The course will culminate in discussions on the development of drug therapies targeting DNA repair pathways for the treatment of numerous diseases. Two lectures per week.

Prerequisite(s): CHEM 231, minimum grade: C- and CHEM 245, minimum grade: C-

CHEM 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

CHEM 455 Special Topic in Chem/Biochemistry **credit(s): 2**

Course repeatable for 6 credit.

Topic determined by instructor. Fall and Spring. Additional pre-requisites may be required depending on topic.

Prerequisite(s): CHEM 355, minimum grade: C-

CHEM 464 Group Theory and Spectroscopy **credit(s): 2**

Introduction to foundations of group theory including symmetry operations and elements, point groups, character tables, reducible and irreducible representations. Formal development of standard models to describe electronic structure of atoms, chemical bonding, as well as rotational and vibrational motion. Quantum mechanical treatment of selection rules and their application to electronic, vibrational, and rotational transitions. Application of group theory and

standard quantum mechanical models to the interpretation of atomic and molecular spectra.
Two lectures per week.

Prerequisite(s): CHEM 355, minimum grade: C-

CHEM 485 Seminar

credit(s): 1

Required of all Chemistry and Biochemistry majors. Fall.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): CHEM 498A, minimum grade: C- (or concurrent) or CHEM 488, minimum grade: C- (or concurrent)

CHEM 488 Senior Literature Review

credit(s): 1

Literature review of special chemical problem or topic under the direction of a faculty member.
Fall or Spring. By Department Chair permission only.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): CHEM 370 (or concurrent)

CHEM 490 Directed Reading

credit(s): 0-3

Course repeatable for 12 credit.

Material and credit to be arranged by instructor.

CHEM 497 Internship

credit(s): 0-6

Course repeatable for 6 credit.

Professional work experience in a chemistry-related field.

Restriction(s):

Must be in the following Major(s): Biochemistry, Chemistry, Chemistry, Chemistry

CHEM 498A Thesis I

credit(s): 1

Investigation of special chemical problems and topics under the direction of a faculty member.

Required for ACS approved B.S. degrees. Fall.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): CHEM 370 (or concurrent)

CHEM 498B Thesis II

credit(s): 1

Required for ACS approved B.S. degrees. Continuation of CHEM 498A. Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): CHEM 498A

Classical Civilizations

Chairperson: Dave Oosterhuis

Professors: A. Goldman, P. Hartin (Emeritus)

Associate Professors: D. Oosterhuis, A. Pistone

Assistant Professor:

The department offers one major and one minor:

Bachelor of Arts, Classical Civilizations major (with a required concentration in either Latin Language & Authors or Greco-Roman Civilization)

Minor in Classical Civilizations

The Department of Classical Civilizations – one of the oldest at our University – provides undergraduates with access to over 2,500 years of human experience drawn from the multicultural world of the ancient Mediterranean and Near East. Classical Civilizations is an interdisciplinary program devoted to the study of that world, with an emphasis on the cultures of Ancient Greece and Rome. These cultures, through their theatre, philosophy, science, and government, helped shape the modern world for good and ill; studying them brings new insight into our own era and lives.

The department offers both a B.A. major (36 credits) and a B.A. minor (23 credits) in Classical Civilizations. All majors and minors are required to complete two (2) upper division CLAS courses as part of the degree, as well as a minimum of at least three (3) language courses in either Latin or Greek up to and including the completion of a 201 level class. Students who elect to pursue a major degree in this program must choose a focus in either Latin Language & Authors or Greco-Roman Civilization and complete four (4) elective courses among those listed in the catalog as well as a senior thesis (CLAS 499; offered in the Fall semester) appropriate to the chosen concentration. Minors are required to select three (3) upper level electives from among those listed in the catalog. The electives encompass a range of disciplines, including history, archaeology, philosophy, religious studies, as well as intermediate and advanced Latin and Greek. Majors are required to include at least one (1) course in Greek culture and one (1) course in Roman culture from among the elective offerings. Participating students thus complete a balanced curriculum divided between the study of ancient languages (Latin, Greek) and their contemporary societies. Through this combined focus, students gain a more broad comprehension and appreciation of the rich cultural and humanistic heritage stemming from the classical world. The ancients themselves embraced this model of liberal arts education. According to the Roman orator Cicero, such cultural and historical study “illuminates reality, vitalizes memory, provides guidance in daily life and brings us tidings of antiquity.”

The department’s courses are by nature interdisciplinary, with application to the sciences, art, theater, literature, philosophy, religion, politics, and government. Moreover, through addressing relevant issues of gender, identity, sex, ethnicity, and interaction between cultures,

the curriculum reaches well beyond the borders of Greece and Rome to embrace other civilizations, including our own. By immersing students in an examination of the languages and ethnically diverse societies of antiquity, the program prepares them for careers within a world that is increasingly diverse, interdependent, and global in outlook, in such fields as politics, ethics, business, law, sciences and education. The department meets the needs of three classes of students: (1) those who wish to pursue a major or minor in Classical Civilizations; (2) those who wish to begin or continue the study of Latin or Greek in support of other majors or in preparation for advanced work in other areas; and (3) those who wish to fulfill the College of Arts & Sciences language competency requirement by taking one of the classical languages.

B.A. Major in Classical Civilizations: 36 Credits

Lower Division

Language Courses:	12 credits
LATN 101-LATN 102 or LATN 103; LATN 201	
GREK 101-GREK 102 or GREK 103; GREK 201	
GREK 151-GREK 152; GREK 251	
CLAS 100-299	3 credits
(To be completed by the end of the sophomore year)	

Upper Division

Two (2) Classical (CLAS) courses	6 credits
One of the following courses:	3 credits
HIST 302 The Ancient City	
HIST 303 Athens in the 5th century BC	
HIST 304 Alexander the Great and the Hellenistic World	
HIST 305 The Roman Republic	
HIST 306 The Roman Empire	
HIST 307 Archaeology of Ancient Greece	
HIST 308 Archaeology of Ancient Rome	

(Other courses may fulfill this requirement with prior permission from the Department Chair.)

Three (3) Elective courses*	9 credits
(At least one of the three elective courses must be 300-400 level courses)	
CLAS 499 Senior Thesis	3 credits

Students **MUST** focus in either: Latin Language and Authors or Greco-Roman (Greek & Roman) Civilization

***Focus in Latin Language and Authors**

LATN 210 Reading Latin	3 credits
LATN 301 Republican Latin Prose I	3 credits
LATN 302 Imperial Latin Prose II	3 credits
LATN 303 Republican Latin Poetry I	3 credits
LATN 304 Imperial Latin Poetry II	3 credits
LATN 305 Vergil	3 credits

LATN 310 Medieval Latin	3 credits
LATN 491 Independent Study (Latin)	1-4 credits

***Focus in Greco-Roman Civilization**

This selection MUST include one (1) course in Greek culture and one (1) course in Roman culture.

The following courses fulfill the Greek culture requirement:

CLAS 310 Greek Gods and Heroes	3 credits
CLAS 320 The Iliad and the Odyssey	3 credits
CLAS 330 Women in Antiquity	3 credits
CLAS 350 Love Poetry in Antiquity	3 credits
CLAS 370 Peoples and Empires of Turkey	3 credits
CLAS 410 Topics in Greek Civilization	3 credits
GREK 210 Reading Attic Greek	3 credits
GREK 260 Reading New Testament Greek	3 credits
GREK 290 Directed Study	3 credits
GREK 291 Independent Study	3 credits
GREK 491 Independent Reading Course	1-4 cred
HIST 302 The Ancient City	3 credits
HIST 303 Athens in the 5th century BC	3 credits
HIST 304 Alexander the Great and the Hellenistic World	3 credits
HIST 307 Archaeology of Ancient Greece	3 credits
PHIL 305 History of Ancient Philosophy	3 credits
PHIL 414 Ancient Concepts of Justice	3 credits

The following courses fulfill the Roman Culture requirement:

CLAS 330 Women in Antiquity	3 credits
CLAS 340 Roman Epic	3 credits
CLAS 350 Love Poetry in Antiquity	3 credits
CLAS 370 Peoples and Empires of Turkey	3 credits
CLAS 420 Topic in Roman Civilization	3 credits
HIST 302 The Ancient City	3 credits
HIST 305 The Roman Republic	3 credits
HIST 306 The Roman Empire	3 credits
HIST 308 Archaeology of Ancient Rome	3 credits
LATN 210 Reading Latin	3 credits
LATN 491 Independent Reading Course	1-4 credits
PHIL 305 History of Ancient Philosophy	3 credits
PHIL 414 Ancient Concepts of Justice	3 credits

The following courses fulfill general elective requirements:

CLAS 360 Ancient Near Eastern Archaeology	3 credits
RELI 303 Biblical Hebrew I	3 credits
RELI 304 Biblical Hebrew II	3 credits

Minor in Classical Civilizations: 23 credits

Lower Division

Two (2) Language Courses	8 credits
LATN 101-LATN 102 or LATN 103	
GREK 101-GREK 102 or GREK 103	
GREK 151-GREK 152	
One of the following two courses:	3 credits
CLAS 110 Introduction to the Ancient World	
CLAS 220 Introduction to Classical Literature	

Upper Division

One CLAS course at any level	3 credits
Three Electives:	9 credits
Selected from any of the following seven (7) disciplinary perspectives:	

Latin Language:

LATN 201 Latin III	
LATN 210 Reading Latin	3 credits
LATN 300-400 level	

Greek Language:

GREK 201 Greek III	
GREK 210 Reading Attic Greek	3 credits
GREK 251 Biblical Greek III	
GREK 260 Reading New Testament Greek	3 credits
GREK 300-400 level	

Archaeology:

HIST 302 The Ancient City	3 credits
HIST 307 Archaeology of Ancient Greece	3 credits
HIST 308 Archaeology of Ancient Rome	3 credits

History:

HIST 303 Athens in the 5th Century	3 credits
HIST 304 Alexander the Great and the Hellenistic World	3 credits
HIST 305 The Roman Republic	3 credits
HIST 306 The Roman Empire	3 credits

Philosophy:

PHIL 305 History of Ancient Philosophy	3 credits
PHIL 414 Ancient Concepts of Justice	3 credits
PHIL 491 Classical Critics of Democracy	3 credits

Hebrew:

RELI 303 Biblical Hebrew I	3 credits
RELI 304 Biblical Hebrew II	3 credits

Courses:

CLAS 110 Introduction to the Ancient World credit(s): 3

An introductory survey to the origins of Western civilization in the Mediterranean world, with particular focus on the Classical cultures of Greece and Rome. The course will focus upon an exploration of these ancient societies, their origins and structure, their social and political constructs, and their neighbors and worldviews. Particular emphasis will be placed upon examining the enduring legacies produced by these ancient peoples and their continuing influence upon the concepts and ideals valued by our contemporary Western culture.

CLAS 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

CLAS 220 Introduction to Classical Literature credit(s): 3

This course is a survey of the literature of the ancient Greeks and Romans. It introduces students to the important authors of Classical Antiquity, the critical issues surrounding their work, and their lasting influence. It stresses the role that ancient authors had in shaping our understanding of literature: its genres, methods, and subject matter. Spring.

Fulfills the following degree requirement(s): Core: Literature

CLAS 310 Greek Gods and Heroes credit(s): 3

A study of Greek Mythology that uses texts (in translation), architecture and archaeology to explore the most important characters and stories of Greek mythology that have become part of the art, literature and imagination of western civilization. This course gives students insight into approaches toward the understanding of myth, especially classical myth that are helpful for their own studies and interests. Fall, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, RELI - Scripture

Equivalent(s): RELI 403

CLAS 320 The Iliad and the Odyssey credit(s): 3

Fall/Fall This course explores (in translation) Homer's Iliad and Odyssey, two poems that are among the foundations of the literature of western civilization. Students will demonstrate an ability to read and analyze these two great epics of ancient Greece in a way that appreciates and unlocks their timeless beauty, depth and significance especially in a way that is helpful for their own studies and interests. Fall, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course

CLAS 325 Topics in Language credit(s): 1-3

Fulfills the following degree requirement(s): CLAS - Elective course

CLAS 330 Women in Antiquity credit(s): 3

An examination of the representation of women Greece and Rome through image and text, using a variety of literary, art historical, and archaeological sources. This course is intended both to illuminate the lives of women in Classical Antiquity and to demonstrate how this illumination is important for a full understanding of the societies of Greece (in particular, Athens) and Rome. Students also gain valuable experience in thinking critically about sources, both ancient and modern. Spring, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course

CLAS 335 Greek Tragedy credit(s): 3

This course will combine performance text analysis with a detailed study of ancient Greek theater and its conventions. In this course, we will read a range of ancient Greek plays (primarily, but not exclusively, tragedies) as well as some more modern adaptations of Greek texts. In addition to readings scripts of ancient and modern plays, we will also read texts that provide access to the creative process and invite us to consider different modes of creative generation.

CLAS 340 Roman Epic credit(s): 3

This course explores (in translation) two of Rome's great contributions to world literature: Vergil's Aeneid and Lucan's Civil War. These works are at the core of the western tradition. They have been read and reinterpreted for millennia and continue to find resonance today. Students learn to read and analyze these poems closely, to appreciate them, and to unlock their timeless beauty, depth and significance. Special attention is paid to applying the themes of these works to students' own lives and studies.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Rome course

CLAS 350 Love Poetry in Antiquity credit(s): 3

Is love a modern invention? This course looks at the phenomenon of love as it appears in the poetry of the ancient Greeks and Romans. Works read (in translation) will include those of Sappho, Callimachus, Catullus Ovid and others. Students will investigate ancient attitudes towards love, sex, and gender roles while developing an appreciation for the differences between time periods, authors, style, and genre. Students will also explore the long-lasting influence of this poetry and find ways to apply it to their own studies and interests.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course

CLAS 360 Ancient Near Eastern Archaeology credit(s): 3

Ancient Near Eastern Archaeology will introduce the student to the archaeology of Mesopotamia, Egypt and the Levant. Archaeological methodology, the history of excavation of ancient sites and material culture will be examined as well as ancient languages, literature and history.

Fulfills the following degree requirement(s): CLAS - Elective course

CLAS 370 Peoples and Empires of Turkey credit(s): 3

This course will provide students with a comprehensive survey of major historical and cultural developments associated with ancient civilizations in Turkey. Using primary textual and archaeological sources, course content will focus upon investigating key trends and cultural movements originating in early societies and ancient empires, from the advent of our earliest

known human settlements to the impact of the imperial domination within the Mediterranean basin. Offered as Study Abroad/Summer Course only.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course

Prerequisite(s): HIST 101 or WGST 271C

CLAS 375 Topics in Classic Civilization **credit(s): 1-3**

Course repeatable for 9 credit.4 time.

A course offering the student an opportunity to study literature of the Classical world in translation.

CLAS 410 Topics in Greek Civilization **credit(s): 1-3**

Course repeatable for 12 credit.

A course offering the student an opportunity to study aspects of classical civilization, with a specialized focus on aspects of the Greek world and its culture.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course

CLAS 420 Topics in Roman Civilization **credit(s): 1-3**

Course repeatable for 9 credit.

A course offering the student an opportunity to study aspects of classical civilization, with a specialized focus on aspects of the Roman world and its culture.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Rome course, FILM - Film & Genre, FILM - Film Elective

CLAS 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world. Spring.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

CLAS 490 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Directed Study requires completion of a form and Dept. permission, and cannot be registered for via Zagweb.

CLAS 491 Independent Study **credit(s): 0-7**

Course repeatable 2 time.

Course content to be determined by the instructor.

CLAS 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional work experience related to classical civilizations.

CLAS 499 Senior Thesis **credit(s): 3**

The senior thesis is required for majors in Classical Civilizations in their fourth year. Fall.

Restriction(s):

Must be in the following Major(s): Classical Civilizations

Must be the following Class(es): Senior

GREEK

GREK 101 Greek I **credit(s): 4**

A beginner's course in Attic Greek: grammar, composition, and easy prose selections. Fall.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

GREK 102 Greek II **credit(s): 4**

Continuation of GREK 101 and more advanced grammar, composition and readings. Spring.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Prerequisite(s): GREK 101

GREK 103 Accelerated Elementary Greek **credit(s): 7**

This is an entry-level course, with no prerequisite, designed to provide the equivalent of the first-year Greek (Attic) sequence GREK 101-102. It therefore prepares students for GREK 201.

Students will learn the fundamentals of Greek vocabulary, grammar, and syntax in order to develop the skills necessary for basic translation and composition of Greek texts. Summer only.

GREK 151 Biblical Greek I **credit(s): 4**

A beginner's course in New Testament Greek: grammar, composition, and easy prose selections.

GREK 152 Biblical Greek II **credit(s): 4**

Continuation of GREK 151 and more advanced grammar, composition and readings.

Prerequisite(s): GREK 151

GREK 190 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

GREK 201 Greek III **credit(s): 4**

Continuation of GREK 102: review of forms, syntax, readings. Fall.

Prerequisite(s): GREK 102 or GREK 103

GREK 210 Reading Attic Greek **credit(s): 3**

This course develops the skill of reading unabridged, original Greek texts. The introductory sequence (GREK 101, 102, 201) is prerequisite. Students are expected to be familiar with the fundamentals of Greek grammar, syntax, and vocabulary, and to have some experience translating. Students will learn how to integrate and synthesize those fundamentals in order to fluidly and fluently engage with extended unabridged texts in the original Greek. Spring.

Prerequisite(s): GREK 201

GREK 251 Biblical Greek III **credit(s): 4**

Continuation of GREK 152: review of forms, syntax and readings.

Prerequisite(s): GREK 152

GREK 260 Reading New Testament Greek **credit(s): 3**

This course develops the skill of reading the Greek New Testament in its unabridged original form. The introductory sequence (GREK 151, 152, 251) is prerequisite. Students are expected to

be familiar with the fundamentals of Koine Greek grammar, syntax, and vocabulary, and to have some experience translating. Students will learn how to integrate and synthesize those fundamentals in order to fluidly and fluently engage with extended unabridged texts in the original Greek

Prerequisite(s): GREK 251

GREK 290 Directed Study **credit(s): 1-4**

Course repeatable for 6 credit.

Topic to be determined by the instructor.

GREK 291 Independent Study **credit(s): 1-4**

Course repeatable for 9 credit.

Topics to be determined by instructor.

GREK 390 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be determined by the instructor.

Fulfills the following degree requirement(s): CLAS - Greek course

GREK 490 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Directed study requires completion of an Individualized Study form and department permission. This course cannot be registered for via Zagweb.

Prerequisite(s): GREK 210

GREK 491 Independent Reading Course **credit(s): 1-4**

Course repeatable for 12 credit.

Course content to be determined by the instructor.

LATIN

LATN 101 Latin I **credit(s): 4**

A beginner's course: grammar, composition, and easy prose selections. Fall.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Equivalent(s): LATN 103

LATN 102 Latin II **credit(s): 4**

Continuation of LATN 101 and more advanced grammar, composition and readings. Spring.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Equivalent(s): LATN 103

Prerequisite(s): LATN 101

LATN 103 Accelerated Elementary Latin **credit(s): 8**

This is an entry-level 12-week course, with no prerequisite, designed to provide the equivalent of the first-year Latin sequence LATN 101-102. It therefore prepares students for either LATN 201 or LATN 104. The course will cover approximately the first half of Wheelock's Latin.

Students will learn the fundamentals of Latin vocabulary, grammar, and syntax in order to develop the skills necessary for basic translation and composition of Latin texts. Summer only.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Equivalent(s): LATN 101, LATN 102

LATN 190 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.
Topic to be determined by instructor.

LATN 201 Latin III **credit(s): 4**

Continuation of LATN 101 and 102: review of forms and syntax; composition, and readings.
Fall.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Prerequisite(s): LATN 102 or LATN 103

LATN 203 Accelerated Latin III **credit(s): 8**

This 12-week course is designed to provide the equivalent of the second-year Latin sequence LATN 201-202 and therefore prepare students for LATN 301. The course will cover approximately the second half of Wheelock's Latin. Students will learn advanced Latin vocabulary, grammar, and syntax in order to master the skills necessary for translation and composition of Latin texts. Summer only.

Prerequisite(s): LATN 103 or LATN 102

LATN 210 Reading Latin **credit(s): 3**

Continuation of LATN 201. Spring.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course, CLAS - Rome course

Prerequisite(s): LATN 201

LATN 290 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.
Course content to be determined by the instructor.

LATN 301 Republican Latin Prose **credit(s): 3**

Course repeatable for 12 credit.
Courses or tutorials for students who have completed the intermediate level Latin and are reading original Latin authors. Fall, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 203, minimum grade: C or LATN 201, minimum grade: C

LATN 302 Imperial Latin Prose **credit(s): 3**

Course repeatable for 6 credit.
Courses or tutorials for students who have completed the intermediate level Latin and are reading original Latin authors. Fall, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 201, minimum grade: C or LATN 203, minimum grade: C

LATN 303 Republican Latin Poetry **credit(s): 3**

Course repeatable for 6 credit.
Courses or tutorials for students who have completed the intermediate level Latin and are reading original Latin authors. Spring, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 201, minimum grade: C or LATN 203, minimum grade: C

LATN 304 Imperial Latin Poetry

credit(s): 3

Course repeatable for 6 credit.

Courses or tutorials for students who have completed the intermediate level Latin and are reading original Latin authors. Spring, alternate years.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 201, minimum grade: C or LATN 203, minimum grade: C

LATN 305 Vergil

credit(s): 3

This course explores the works of the greatest of the Latin writers, the Roman poet Publius Vergilius Maro, commonly called Vergil (or Virgil). Students will read selections from all three of Vergil's canonical works, the Eclogues, Georgics, and Aeneid, and will learn about the poet's development, achievement, and influence. The course is designed for students who have completed intermediate level Latin and are able to read original Latin texts.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 201 or LATN 203

LATN 310 Medieval Latin

credit(s): 3

Courses or tutorials for students who have completed the intermediate level Latin and are reading original Latin authors.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Latin course

Prerequisite(s): LATN 201

LATN 490 Directed Study

credit(s): 1-6

Course repeatable for 10 credit.

Directed Study requires completion of a form and Department permission, and cannot be registered for via Zagweb.

LATN 491 Independent Reading Course

credit(s): 1-6

Course repeatable for 12 credit.

Fulfills the following degree requirement(s): CLAS - Elective course

Communication Studies

Chairperson: Melissa Click

Professor: H. Crandall, T. Osborne, J. Rossing,

Associate Professors: M. Click, J. Gordon, J. Mora, K. Petruska

Assistant Professors: J Favara, J. Flores

Senior Lecturers: G. Frappier, K. Morehouse

Lecturers: R. Donaway

The department offers one major and one minor:

Bachelor of Arts, Communication Studies major

Minor in Communication Studies

The mission of the Communication Studies Department at Gonzaga University is to cultivate a sophisticated understanding of the process of communication as symbolic action. The department provides a theoretically-grounded and experiential education that prepares students to analyze, produce, deliver, and critique human communication in its many forms. The department prepares students with rhetorical skills (*eloquentia perfecta* in the Jesuit rhetorical tradition), a refined sense of judgment and discernment, and the ability to carefully adapt communication practices to any given context and audience.

The power of communication is inescapable; it affects us everywhere and is central to all aspects of our daily, social interactions. The Communication Studies department teaches students to embrace communication as the central means of creating, maintaining, and transforming social realities. Communication Studies equips students to carefully analyze the way people co-create social realities and cultures through communication and to discern how these social realities affect our communities, for better or worse.

Majors and minors gain experience analyzing and proposing solutions to complex problems confronting the human condition because a deep understanding of communication creates limitless possibilities to improve the world. We interrogate the consequences of our communication processes and discover and produce knowledge about communication practices. We teach students to leverage the power of communication to create more just and equitable social worlds.

The department is committed to nurturing a diverse, inclusive community of scholars who think critically and engage responsibly with the problems and issues of our communities through exemplary, ethical communication via multiple modes of address. We build on an ethos of social justice to prepare graduates to address contemporary issues and challenges as leaders in the community, the public arena, and the world. Research shows that the most successful people in any profession are exceptional communicators.

Communication Studies courses help students develop the skills employers demand such as the ability to work effectively in team settings, analyze information necessary to make decisions and solve complex problems, communicate with people inside and outside an organization, and influence others. We prepare students for a broad range of careers spanning advertising, marketing, public relations, government, non-profit organizations, and other leadership positions. Our graduates also pursue advanced graduate studies in media research, law, business, education, medicine, cultural studies, and other humanities and social sciences. Communication Studies is also home to the University's nationally renowned intercollegiate Debate Program, which has its own facility, Conway House.

In short, Communication Studies provides students with a critical understanding of the reasons why people think, feel, and act in particular ways; the leadership know-how necessary to make a difference in the world; and the skills that employers seek.

B.A. Major in Communication Studies: 37 credits

Lower Division (15 credits)

Required theoretical/conceptual foundation courses

COMM 210 Understanding Meaning-making	3 credits
COMM 220 Understanding Power in Culture	3 credits
COMM 230 Understanding Identity	3 credits

Required inquiry methods courses

COMM 275 Analyzing Public Texts	3 credits
COMM 285/SOSJ 263: Analyzing Practices and Habits	3 credits

Upper Division (22 credits)

Choose six of the following seventeen courses: 18 credits

Six credits must be at the 400-level.

- COMM 310 Politics of Popular Culture
- COMM 320/INST 320 Resistance, Struggle, and Power
- COMM 330/INST 332 Politics of Space and Place
- COMM 331/SOSJ 363 Argumentation and Debate
- COMM 340 Encounters in Public Spheres
- COMM 350/INST 351 Politics of Social Memory
- COMM 360 Media Aesthetics
- COMM 370 Digital Culture/Networked Self
- COMM 401/SOSJ 464 Communication and Leadership
- COMM 420 Critical/Cultural Communication
- COMM 430/SOSJ 466/INST 430 Intersectional Communication
- COMM 440/INST 440 Rhetoric of Social Change
- COMM 450/SOSJ 465 Justice and Arts of Civic Life
- COMM 480 Themes in Communication
- COMM 482 Independent Study
- COMM 485 Communication Abroad (*transfer credit for select study abroad experiences*)
- COMM 497 Internship

COMM 484 Senior Seminar	3 credits
COMM 490 Crafting Professional Identity	1 credit

Minor in Communication Studies: 21 credits

Lower Division (9 credits)

Choose two of the following three conceptual/theoretical foundation courses: 6 credits

COMM 210 Understanding Meaning-making

COMM 220 Understanding Power in Culture

COMM 230 Understanding Identity

Choose one of the following two inquiry method courses: 3 credits

COMM 275 Analyzing Public Texts

COMM 285/SOSJ 263 Analyzing Practices and Habits

Upper Division

The upper-level electives have specific prerequisites. Plan your 200-level coursework based on the upper-level electives you wish to take. Consult with your advisor or the Department Chair for assistance.

Choose four of the following fifteen courses: 12 credits

Three credits must be at the 400-level.

COMM 310 Politics of Popular Culture

COMM 320/INST 320 Resistance, Struggle, and Power

COMM 330/INST 332 Politics of Space and Place

COMM 331/SOSJ 363 Argumentation and Debate

COMM 340 Encounters in Public Spheres

COMM 350/INST 351 Politics of Social Memory

COMM 360 Media Aesthetics

COMM 370 Digital Culture/Networked Self

COMM 401/SOSJ 464 Communication and Leadership

COMM 420 Critical/Cultural Communication

COMM 430/SOSJ 466/INST 430 Intersectional Communication

COMM 440/INST 440 Rhetoric of Social Change

COMM 450/SOSJ 465 Justice and Arts of Civic Life

COMM 480 Themes in Communication

COMM 485 Communication Abroad (*transfer credit for select study abroad experiences*)

Notes for Minor in Communication Studies:

- Elective list for minors does not include: Independent Study, Internship, Capstone.
- Minors *may* take COMM 490: Crafting Professional Identity, but it is not required for the minor degree requirements.

Master of Arts in Communication and Leadership Studies (COML) and Master of Arts in Organizational Leadership (ORGL) 4+1 Program:

Majors interested in pursuing a Master of Arts in Communication and Leadership Studies (COML) or a Master of Arts in Organizational Leadership (ORGL) may apply to the graduate program at the end of the academic year immediately preceding their final year of undergraduate study. Those who meet the COML or ORGL admissions standards will be granted provisional acceptance. During their final year of undergraduate study, these students will be able to enroll in up to six graduate-level COML or ORGL credits in addition to their undergraduate course load, with no additional or separate charge for graduate credits. "4+ 1" students will be limited to a maximum of 18 credits per semester, including graduate credits, in each of the two semesters of their final year of undergraduate study.

Courses:

COMM100 Communication and Speech **credit(s): 3**

Communicating thoughtfully and ethically for, with, and among others is vital to becoming the leaders Gonzaga hopes students will become. This course introduces students to the theory and practice of rhetoric—how we use symbols to create meaning and understanding between people—with the goal of helping students continue to grow into responsible and thoughtful communicators. Students will learn how communication (including oral, visual, and aural symbol use across personal interactions, media, our bodies, physical spaces, and other material phenomena) shapes our identities, ideas, policies, society, and all aspects of our lived experiences. The course develops skills and ways of thinking about communication needed to analyze, construct, and deliver messages that enrich civic and cultural life. Three central concepts—rhetoric & symbolic action, civic engagement, and audience—provide a common thread throughout the class as we explore the Core Curriculum Year 1 question: “How do we pursue knowledge and cultivate understanding?” The course supports the University mission through alignment with eloquentia perfecta, a Jesuit tradition that references excellence in speaking and writing for the common good to create a more just world.

Fulfills the following degree requirement(s): Core: Communication and Speech

COMM193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga’s Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

COMM210 Understanding Meaning-making **credit(s): 3**

We make sense of our world and the people in it through the symbols we use to communicate about our experiences. The symbols we use (e.g. language, pictures, film, music, architecture,

bodies) matter because they have real effects on us, on others, and on our perceptions and understanding of the world. This course explores the theories and ways of thinking that help us understand how symbols create, maintain, and transform our social worlds. Fall and Spring.

COMM220 Understanding Power in Culture credit(s): 3

Power is everywhere and influences our relationships with others and our ability to get things done in our societies. Communication and symbolic action is a primary way that people struggle over and effect their power relationships. Power clearly reveals itself in cultural ideologies or values and beliefs that influence our social actions, and these ideologies are embedded in our daily communication practices. This course introduces a cultural studies perspective that helps students build a lexicon and critical capacity for engaging with power, ideology, and cultural influence. Fall and Spring.

COMM230 Understanding Identity credit(s): 3

Our intersecting identities emerge from an array of communicative, performative, and cultural practices and they are tied up in everyday communication contexts such as interpersonal interactions, media platforms, and social movements. Through communication we align ourselves with common interests and communities, and this course will provide a theoretical foundation for understanding audiences, our performances of self, and our negotiation of the two. The course also invites students to explore how our identities are shaped and interpreted in ways outside our control. Fall and Spring.

COMM275 Analyzing Public Texts credit(s): 3

This course introduces students to the practice of studying, analyzing, and interpreting public texts, and the work they do in constituting public culture. Students engage with methods to make critical judgements about how rhetorical/communicative texts influence public life. Students will address public texts including written, visual/aural, and embodied forms of communication such as movies and song lyrics, sports broadcasts, maps, museum spaces, political speeches, religious texts, historical writings, comedic performances, YouTube channels, and much more. Students will also engage in ethical communicative practices that produce knowledge about human communication and relationships. Fall and Spring.

Prerequisite(s): COMM 100 or HONS 100

COMM282 Special Topics credit(s): 0-3

Course repeatable for 9 credit.

Topic determined by instructor.

Prerequisite(s): COMM 210 and COMM 220

COMM285 Analyzing Practices and Habits credit(s): 3

This course provides a foundation in attending to, analyzing, and reporting meaningful information about the social world through humanistic communication research methods. The course introduces ethnographic and qualitative research methods, ethics, selection of research topics and questions, ethnographic data collection methods (e.g. participant observation; un-, semi- and structured interviewing; structured observation), managing and coding field notes, and qualitative analysis. In this course, students will create field notes, analyses, and more. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): HONS 283, SOSJ 263

Prerequisite(s): COMM 100 or HONS 100

COMM310 Politics of Popular Culture**credit(s): 3**

Pulling from the fields of media and cultural studies, this course explores the ways we use and are used by popular culture. This class seriously considers how popular culture influences the ways we think, feel, act, and participate in civic life. Building upon students' expertise as cultural consumers, we explore popular culture through aesthetic, ideological, social, and industrial lenses. Through our consideration of a wide range of popular culture—including film, television, games, print and social media, advertising, and others—we explore questions of aesthetic quality and cultural value in relation to media texts, audiences, and our experiences of culture. Spring.

Fulfills the following degree requirement(s): BU - Marketing conc Req

Prerequisite(s): (COMM 210, minimum grade: C or COMM 220, minimum grade: C) and COMM 275, minimum grade: C

COMM320 Resistance, Struggle, and Power**credit(s): 3**

Communication is the central means for contesting and reconfiguring structural forms of power relations among social groups, and this class focuses on power dynamics and imbalances across social institutions such as law, education, medicine, economics, media, and religion. Students engage the concepts of hegemony (the production of consent for dominant power relationships) and counter-hegemony (the struggle against dominant social arrangements). As such, the course invites students to consider the interplay of communication, culture, and social institutions in maintaining, resisting, and transforming the persistent inequalities of power and disproportionate distribution of cultural and political capital. Fall.

Equivalent(s): INST 320

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): COMM 210, minimum grade: C and COMM 220(and COMM 275, minimum grade: C or COMM 285, minimum grade: C)

COMM330 Politics of Space and Place**credit(s): 3**

Everyday encounters with physical surroundings guide our orientations to the world. As we wander city streets, shopping malls, stadiums, nature preserves, sacred sites, restaurants, monuments, museums, and classrooms, we examine how we move in, and are moved by the material arenas we share. Spatial organization and built environments inform our habits of perception, determine the meaning of a particular place, accent what is worth attention and what might be overlooked, and reaffirm dominant norms and power relationships in public culture. Charts, maps, apps, and other navigational tools dictate where and how we move, and how we understand our roles within a given space. Featuring the experiential dimensions of rhetoric and communication, this course presses us to consider how material spaces and places construct everyday geographies. Spring.

Equivalent(s): ENVS 328, INST 332

Prerequisite(s): COMM 210 and COMM 220(and COMM 275 or COMM 285)

COMM331 Argumentation and Debate**credit(s): 3**

Examination of the fundamentals of advocacy including argumentation theory, techniques of persuasion, refutation, and cross-examination. This course is open to both debate team

members and anyone interested in improving their argumentation skills. Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): SOSJ 363

Prerequisite(s): COMM 210

COMM340 Encounters in Public Spheres

credit(s): 3

Everyday communication practices, conventional public deliberations, and emergent media technologies shape our public life and affect human and non-human entanglements. This class explores contemporary theoretical conversations about publics and public spheres: what they look like, how they are shaped, how they arrange political bodies, and how we navigate their boundaries and borders of inclusion and exclusion. Students analyze how different modes of communication promote solidarities around common concerns and arrange difference, as well as how we form counter-publics and spaces of resistance and transformation. Topics may include propaganda and censorship, surveillance and privacy, journalism and mass media, spheres of expertise (i.e., science and medicine), roles of rumor, and notions of cultural “buzz.” Fall.

Fulfills the following degree requirement(s): BU - Marketing conc Req

COMM342 Debate Participation

credit(s): 1

Course repeatable 8 time.

Participation on University debate teams.

COMM350 Politics of Social Memory

credit(s): 3

The ways we remember our collective past influence our present and shape our futures. This course examines how we rhetorically construct and struggle over social memory through public remembrances of historical events via war memorials, film and documentary, commemorative celebrations, reenactments, monuments, and museum exhibits. Students extend rhetorical and visual theoretical concepts and methods to evaluate sites of public memory and the social and cultural politics shaping the construction of memory. Fall.

Equivalent(s): INST 351

Prerequisite(s): COMM 210, minimum grade: C and COMM 220, minimum grade: C(and COMM 275, minimum grade: C or COMM 285, minimum grade: C)

COMM360 Media Aesthetics

credit(s): 3

Images and sounds saturate our daily lives and while we often pay attention to content, we may neglect the visual and aural dimensions of these media. As citizens and consumers, we need to develop critical visual and aural interpretive frameworks to make sense of media. This course invites students to sharpen their analytical tools to attend to the sights and sounds that animate everyday life. This course examines media aesthetics through mise-en-scene, camera and point of view, editing techniques, visual style, and sound. From still to moving images, from print to online, students will conduct detailed aesthetic analyses of movies, television, radio, advertisements, podcasts, art, photography, websites, gifs, memes, and other forms of digital media. Additional topics may include industry, genre, power, visual culture theory, and identity. Fall.

Equivalent(s): FILM 320

Prerequisite(s): COMM 210, minimum grade: C and COMM 230, minimum grade: C and COMM 275, minimum grade: C

COMM370 Digital Culture/Networked Self **credit(s): 3**

Online communication has both collapsed our communication contexts and expanded our potential identities and relationships. This course applies a cultural lens to understand our digital lives and the various media technologies we interact with on a daily basis. We will examine a range of contemporary theories and issues surrounding digital media including how cultural values are embedded in digital technologies and how we manage identities across multiple digital contexts. We will explore ways to successfully and critically navigate an array of personal, professional, and civic responsibilities in a globally networked world. Spring.

Prerequisite(s): COMM 230, minimum grade: C and COMM 285, minimum grade: C

COMM401 Communication and Leadership **credit(s): 3**

A critical examination of the reciprocity between effective communication and successful leadership. Includes an historical examination of leadership styles, theories, and research. Includes an analysis of motivation, power, and organizational culture. Writing and speaking assignments are designed to cultivate leadership skills. Fall.

Fulfills the following degree requirement(s): BU - Marketing conc Req

Equivalent(s): SOSJ 464

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 210 and COMM 230

COMM420 Critical / Cultural Communication **credit(s): 3**

This course invites students to integrate their communication studies knowledge with a broad, interdisciplinary conversation on critical theory, and to understand how communication scholars engage with other disciplines and thinkers in struggles for social justice, social change, and solidarity. The course will address a range of critical theories that have influenced and been influenced by the study of communication such as Marxism, the Frankfurt School, postcolonial theory, feminist theory, critical race theory, and queer theory. Students explore how critical theory is linked to and emerges from socio-political struggle in different historical moments. In addition, the course invites students to apply critical theory to contemporary social debates and challenges to better understand questions of power, civic participation, identity, and social organization. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 310, minimum grade: C or COMM 320, minimum grade: C

COMM430 Intersectional Communication **credit(s): 3**

The study of communication and culture in a global world cannot and must not be apolitical, ahistorical, or blind to the messy entanglements of power and privilege. Therefore, this course will focus on the intersections between critical race theory, feminist theory, and critical intercultural communication in order to interrogate and examine the ways in which our social identities and locations affect the contexts of our lives including our opportunities, relationships, and overall understanding of the world. Specifically, this course will engage the

work of Black Feminist scholars and ongoing scholarly conversations on intersectionality to analyze intercultural encounters and engagement. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): INST 430, SOSJ 466

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 320, minimum grade: C or COMM 340, minimum grade: C

COMM432 Core Integration Seminar

credit(s): 3

4 time.

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

COMM440 Rhetoric of Social Change

credit(s): 3

Public expression and discourse can affirm, complicate, challenge, and even radically revolutionize our shared values and ideals over time. Arguments and symbolic actions in communal spaces prompt individuals and groups to rethink, redevelop, and reestablish potential modes of identity, participation, and interaction within a society. Students in this course will closely examine specific social movements (including, potentially, civil rights, gender rights, indigenous rights, and environmental movements) to better understand the plurality of voices and modes of public expression in dialogue and competition that contribute to, resist, and ultimately shape societal change. Students will then build upon historical knowledge and perspective to engage in an immersive study of an ongoing contemporary social controversy, ultimately creating an informed rhetorical intervention of their own, participating in the social issues and changes of the current day. Fall.

Equivalent(s): INST 440

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 320, minimum grade: C or COMM 340, minimum grade: C or COMM 350, minimum grade: C

COMM450 Justice and Arts of Civic Life

credit(s): 3

Ethical communication and intentional civic engagement fosters vibrant democratic life. As civic actors, we deliberate and contest policies, advocate for justice, and attempt to foster cooperation among a multiplicity of voices. This course synthesizes theories of ethics that students grapple with to examine relationships between rhetoric, democracy, and justice. Specifically, we will address questions of how we should practice rhetoric in ways that refine

our capacities for ethical discernment, build inclusive communities, promote social justice, and ultimately enrich democratic life. Spring.

Fulfills the following degree requirement(s): BU - Marketing conc Req, SOSJ - Block D

Equivalent(s): SOSJ 465

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 340, minimum grade: C

COMM480 Themes in Communication

credit(s): 3

Course repeatable for 6 credit.

Special topics courses are one time course offerings that include courses that address a current or timely topic or a special interest which will not be made a regular on-going part of the curriculum. Occasionally, a special topics course may be used to offer an experimental or “pilot” phase course before it is subsequently proposed as a regular course. Special topics course offerings vary from term to term. See current semester course listings for topics.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): (COMM 210 or COMM 220)(and COMM 275 or COMM 285)

COMM482 Seminar

credit(s): 1-3

Special topics with credit to be arranged. On sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 184

COMM484 Senior Seminar

credit(s): 3

In this capstone course for the Communication Studies major, students demonstrate their proficiency in oral, written, and visual communication by adapting their senior thesis to multiple communication platforms. The seminar is also designed to help students reflect on their education and develop a personal philosophy of communication. Fall and Spring.

Restriction(s): Current Chair States above this is a Writing Enriched course

Must be the following Class(es): Senior

COMM485 Communication Abroad

credit(s): 3

Course repeatable for 6 credit.

This course provides transfer credit for students who have arranged an intensive experience studying abroad and will be taking a humanities-based communication course that explores themes of rhetoric, media, and cultural studies that deepens their understanding of the foundation they’ve received at Gonzaga. Prior permission from the Department Chair is required.

COMM490 Crafting Professional Identity

credit(s): 1

In this course, students connect their communication studies knowledge and skills with their civic and professional goals during and after college. Students compose narratives highlighting their proficient use of communication skills within their personal organizational experiences, at school, at work, and within their communities. Building this portfolio of materials helps students translate and articulate their skills and ambitions into new organizational contexts post-graduation. A series of professional speakers, including alumni, will model communication in developing a career path. Students apply a social justice perspective to professional life and

consider how to integrate a Jesuit, Catholic, humanistic educational experience in a professional context. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): 27 credits of COMM courses

COMM491 Directed Study

credit(s): 0-10

Course repeatable for 12 credit.

Directed Study requires completion of a form, department permission and cannot be registered for via Zagweb.

Prerequisite(s): COMM 101

COMM497 Internship

credit(s): 0-6

Course repeatable for 6 credit.

Professional experience in a communication related field. Students must take the initiative to contact an agency or business and find a Communication Studies department faculty member willing to supervise the internship. Fall, Spring, and Summer.

Criminology

Chairperson: J. Johnston

Professor: A. Bertotti Metoyer

Associate Professors: M. Bahr, A. Bruns, M. Deland, V. Gumbhir, J. Johnston, N. Morlock, W. Hayes

Assistant Professors: A. Brower, A. Inlow, C. Schwarz

Professors Emeriti: J. Rinehart, E. Vacha

The department offers one major and one minor:

Bachelor of Arts, Criminology major

Minor in Criminology

The Criminology program introduces students to sociological perspectives on the causes, consequences, and control of criminal behavior. Course work focuses on the development and organization of criminal justice institutions, especially the police, courts, and corrections. Students examine pressing social issues, such as racial profiling, mass incarceration, and prisoner re-entry.

The program fosters a commitment to social justice and the common good as students develop a sociological imagination and learn to critically consume information, theorize social contexts, create new knowledge, and communicate with and for others. In addition to providing opportunities for academic research and analysis, students gain the knowledge base and skills for pursuing careers in criminal justice institutions and related policy and non-profit fields.

B.A. Major in Criminology: 33 credits

Lower Division

CRIM 101 Crime, Social Control, Justice 3 credits

SOCI 101 Introduction to Sociology 3 credits

SOCI 202 Statistics for Social Science 3 credits

SOCI 204 Research Methods 3 credits

Upper Division

CRIM 312 Criminological Theories 3 credits

CRIM 499 Criminology Senior Capstone 3 credits

CRIM Upper Division Electives 15 credits

Minor in Criminology: 18 Credits

Lower Division

CRIM 101 Crime, Social Control, Justice 3 credits

Upper Division

CRIM Upper Division Electives 15 credits

Courses:

CRIM 101 Crime, Social Control, Justice credit(s): 3

A critical analysis of the way the American criminal justice system operates, focusing on the nature of law, the police, and the courts.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

CRIM 180 Issues in Law Enforcement credit(s): 3

Examines current issues in law enforcement such as corruption, brutality, use of deadly force, politics and policy administration, resource management, stress, community relations, and major court decisions.

Fulfills the following degree requirement(s): CRIM - Elective

CRIM 181 Issues in Courts credit(s): 3

A hands-on class conducted by a Superior Court Judge. Students observe actual trials and are instructed about the proceedings by the judge.

Fulfills the following degree requirement(s): CRIM - UD foundation, CRIM - Elective

CRIM 190 Directed Reading credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

CRIM 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

CRIM 295 Special Topics credit(s): 1-4

Course repeatable for 12 credit.

Topic determined by instructor.

CRIM 312 Criminological Theories credit(s): 3

This course assists students in thinking theoretically about crime, criminal justice, and social control, focusing on the articulation between theoretical constructs, research strategies, and claims to knowledge. We explore the ways in which the theoretical resources of the social

sciences can be brought to bear upon the phenomena of crime and criminality, their occurrence and distribution, and their contested character. Offered every semester.

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminal Justice, Criminology, Criminology

Prerequisite(s): CRIM 101, minimum grade: C

CRIM 350 Deviant Behavior

credit(s): 3

Knavery, skullduggery, cheating, crime, malingering, cutting corners, immorality, dishonesty, betrayal, wickedness, and all other unconventional activities are forms of deviance. All known societies have members who become deviants. This course introduces students to several theories explaining deviance and examines the life styles of a variety of deviants.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior

Equivalent(s): SOCI 350

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 351 Criminology

credit(s): 3

A study of crime and criminal offenders in America. Special attention will be given to criminal statistics, theoretical explanations, and public policy.

Fulfills the following degree requirement(s): CRIM - Social Behavior

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 352 Corrections

credit(s): 3

An examination of the U.S. correctional system, from its origins to the present day. Focuses on philosophical and policy issues and debates that confront our society in attempting to deal with criminal offenders. Field trips to correctional facilities.

Fulfills the following degree requirement(s): CRIM - Elective

Equivalent(s): CRIM 452

Restriction(s):

Must be the following Class(es): Junior, Senior

CRIM 353 Juvenile Justice

credit(s): 3

An investigation of the nature and extent of juvenile delinquents in the United States. Special attention will be given to theoretical explanations; the effect of family, peers and school; and the history of the juvenile justice system in handling juvenile offenders.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior

Equivalent(s): SOCI 353

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): CRIM 101

CRIM 355 Elite and White Collar Deviance credit(s): 3

This course examines deviance and crimes committed by organizations and the rich and powerful. The nature, extent and societal effects of various types of elite and white collar deviance are examined.

Fulfills the following degree requirement(s): CRIM - Elective

Equivalent(s): SOCI 355, SOSJ 323

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminology, Sociology

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 356 Sociology of Policing credit(s): 3

This course examines law enforcement in American society with a focus on empirical research and sociological and criminological theory. Students will review the historical development of policing in the United States, the roles of the police in contemporary society, the structure and responsibilities of law enforcement agencies in this country, and the interaction between institutional and individual aspects of police work. Students will also be exposed to research and theory on controversial issues in law enforcement, including the use of force, police deviance, the use of discretion, the impact of social inequality on enforcement, and policing in the mass media.

Fulfills the following degree requirement(s): CRIM - UD foundation, CRIM - Elective

Equivalent(s): SOCI 356

Prerequisite(s): CRIM 101 or SOCI 101

CRIM 357 Inequality, Crime and Urban Life credit(s): 3

This course examines the relationship between inequality and crime in America's inner cities. Students will consider how cultural, economic, educational, legal, political, and other factors shape life in urban areas, and how these factors reproduce crime and inequality in America's inner cities.

Fulfills the following degree requirement(s): CRIM - Elective, SOSJ - Block B

Equivalent(s): SOCI 357, SOSJ 325

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 358 Mass Incarceration credit(s): 3

This course examines the causes and consequences of mass incarceration in the United States from a sociological perspective. Particular attention will be paid to racial/ethnic and socioeconomic inequalities in imprisonment. The impact of mass incarceration on incarcerated individuals, their families, and society, more broadly will be examined. Spring.

Equivalent(s): SOCI 358, SOSJ 330

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 359 Criminal Violence credit(s): 3

This course introduces students to various forms of criminal violence (e.g., homicides, robbery, terrorism, and gang violence). Students will gain a deeper understanding of the criminological

and social mechanisms and frameworks that underlie their occurrence, including (sub)cultural context and situational dynamics.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): CRIM 101

CRIM 360 Street Gangs in America

credit(s): 3

This course introduces students to the history of gangs, their individual and group characteristics, lifestyle, and the strategies of gang control. Students will gain a deeper understanding of the theoretical mechanisms and frameworks that underlie various gang processes, including membership, violence, and disengagement.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): CRIM 101

CRIM 361 Crime and Gender

credit(s): 3

An exploration of the ways in which gender influences who is and is not considered criminal, why women are often socialized to be the victims of crime and men the perpetrators of such actions, and how such behaviors are used to maintain and support pre-existing inequalities. As such, special attention will also be paid to how issues of social class, ethnicity, and sexual orientation often temper these societal outcomes.

Fulfills the following degree requirement(s): CRIM - Elective, Women's & Gender Studies

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 362 BIPOC, Crime and Justice

credit(s): 3

This course will take an in-depth and critical examination of the role that race/ethnicity plays in crime and justice process. The theories, causes, and statistics behind disparities in the crime and justice system will be examined. Furthermore, the discrimination against black, indigenous, and people of color (BIPOC) in the contexts of police-minority contact, sentencing, and corrections will be discussed at length.

Prerequisite(s): CRIM 101

CRIM 363 The Death Penalty

credit(s): 3

The United States holds the problematic distinction among Western societies of being the only jurisdiction to retain death as a form of punishment in the majority of its states, at the federal level, and in the military. This course is designed to illustrate the empirical background of capital punishment, from its early history to present day.

CRIM 364 Drugs and Society

credit(s): 3

This course will examine the effect that drugs, both legal and illegal, have on the legal justice system. Critical analysis, select lectures, in-class discussion, and writing will be the formats used to address issues such as the effect of the "war on drugs," the decriminalization debate, the relationship between drugs and violence, how drugs relate to law enforcement, sentencing, and corrections within the U.S. legal justice system, and the impact of drugs on individual users.

Equivalent(s): HEAL 364, SOCI 364

CRIM 365 Comparative Criminal Justice credit(s): 3

A comparison of criminal justice systems from around the world using the Internet and a seminar format.

Fulfills the following degree requirement(s): CRIM - Elective

CRIM 366 Mass Trauma and Genocide credit(s): 3

This course investigates the relationship between multiple intersecting identities (including race, gender, religion, class) and mass trauma, genocide, and human suffering. We will explore a range of mass traumas in diverse cultural and political settings, primarily focusing on the twentieth century. Throughout the semester, the importance of collective memory will be brought to bear on the study of mass trauma and genocide. Fall, odd years.

Equivalent(s): SOCI 366

CRIM 370 Forensic Psychology credit(s): 3

This course is an introductory level course to the field of forensic psychology, the branch of psychology which focuses on the application of psychological research data and principles within the legal arena. Students will be introduced to the process of applying psychological knowledge, concepts, and principles within the civil and criminal court systems. This course will include an introduction to an overview of topics such as the history of forensic psychology, an overview of the legal system, consultation to legal parties, ethical issues, eye witness testimony, assessment, evaluation of malingering, competency in criminal proceedings, civil commitment, child custody, psychologist testimony in courtroom settings, assessment of sexual offenders, assessment of violent and homicidal behavior, treatment of crime victims, police and investigative psychology, and careers within this field. A variety of formats will be used including lecture, readings, presentation by class members on selected topics, and guest speakers from within the legal arena. Offered upon sufficient demand.

Disclaimer:

This course by virtue of its topic will address issues related to criminal activity and the subsequent legal proceedings. Although it may seem obvious, each person should consider carefully whether the content is suitable before enrolling in the course as the lectures, readings, and other materials may at times involve topics related to violence and sometimes sexual material which may be offensive to some people.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Psychology

Equivalent(s): PSYC 376, PSYC 402

Prerequisite(s): SOCI 202 and SOCI 204

CRIM 385 Law and Society credit(s): 3

The central question of this course is how do social policies that contribute to the common good come to be written into law in some times and places and not others? The course analyzes an array of political, economic, social, and cultural factors that combine to shape policy development. Case studies will include education, welfare, health care, the environment, and/or other policy domains.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Law

Equivalent(s): SOCI 385

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 386 Criminal Law **credit(s): 3**

Substantive criminal law; principles, functions, and limits; basic crime categories with extensive case analysis; state and national legal research materials.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Law

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 390 American Court System **credit(s): 3**

A hands-on class conducted by a Superior Court Judge. Students observe actual trials and are instructed about the proceedings by the judge.

Fulfills the following degree requirement(s): CRIM - UD foundation, CRIM - Elective

Restriction(s):

Must not be the following Class(es): Junior, Senior, Sophomore

CRIM 391 Directed Study **credit(s): 0-3**

Course repeatable for 12 credit.

Course content to be determined by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

CRIM 395 Topics in Criminology **credit(s): 3-4**

Course repeatable for 9 credit.

Specific topics to be chosen by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 396 Topics in Criminology **credit(s): 3**

Course repeatable for 12 credit.

Specific topics to be chosen by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must not be the following Class(es): Freshman

CRIM 397 Topics in Criminology **credit(s): 3**

Course repeatable for 6 credit.

Specific topics to be chosen by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 398 Topics in Criminology **credit(s): 3**

Specific topics to be chosen by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 399 Topics in Criminology credit(s): 3

Course repeatable for 6 credit.

Specific topics to be chosen by instructor.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 432 Core Integration Seminar credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

CRIM 480 Crim/Civil Trial Procedure credit(s): 0-3

Course repeatable 1 time.

Full court case preparation in a year-long mock trial team environment, including knowledge of the law, opening and closing statements, directs, redirects, cross-examinations, courtroom procedure and demeanor. Formal American Mock Trial competition takes place during spring semester, at the end of which credit will be granted for successful completion of the course.

Intended only for those with a serious interest in law. Cannot be repeated for credit.

Fulfills the following degree requirement(s): CRIM - Elective

Equivalent(s): CRIM 380

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

CRIM 490 Dir Read in Criminal Justice credit(s): 1-4

Course repeatable for 6 credit.

Supervised readings in criminal justice.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

CRIM 494 Senior Thesis**credit(s): 3**

Students with at least a 3.70 GPA in the Criminology major and at least a 3.30 overall GPA who wish to graduate with Departmental Honors in Criminology must enroll in CRIM 494 two semesters prior to their graduation and complete an honors thesis. The thesis may be a significant expansion of the student's work in SOCI 204 or CRIM 499. A committee of three faculty members will direct the thesis. Two members of the committee must be from the Criminology/Sociology Department, and one may be from another department. The chair of the committee will be the instructor of record. The committee's decision about whether to award Departmental Honors is independent of the course grade.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Senior

CRIM 495 SPD Cooperative Education**credit(s): 1**

Course repeatable for 2 credit.

The course involves a 40 hour training academy and a commitment of at least 20 hours a month to the Spokane Police Department. Students will provide low priority responses to citizen needs such as property recovery and accident reporting. Student must be enrolled in this course prior

to beginning the academy training. This course may be taken twice, for up to 2 credits total.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminology

Must be the following Class(es): Junior, Senior

CRIM 496 Practicum in Criminal Justice

credit(s): 1-3

Course repeatable for 6 credit.

Supervised experience for Criminology majors in selected criminal justice agencies such as the Spokane County Prosecutor's Office, the Spokane County Public Defender's Office, or the Spokane County Juvenile Court.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

CRIM 497 Criminology Internship

credit(s): 0-6

Course repeatable for 6 credit.

Practical experience working in the Criminal Justice field. Internships are individually arranged and may be done in a wide array of settings.

Fulfills the following degree requirement(s): CRIM - Elective

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminal Justice, Criminology, Criminology

Must be the following Class(es): Junior, Senior

CRIM 499 Criminology Senior Capstone

credit(s): 3

An advanced class in criminological theory and methods. In a seminar format, students will review and discuss current criminological research and theories. Required of all Criminology majors and fulfills the comprehensive examination degree requirement.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences

Must be in the following Major(s): Criminal Justice, Criminology

Must be the following Class(es): Senior

Prerequisite(s): CRIM 101, minimum grade: D and CRIM 312, minimum grade: D (or concurrent)

Critical Race and Ethnic Studies

Chairperson: Shalon Parker

The program offers one minor:

Minor in Critical Race and Ethnic Studies

The Critical Race and Ethnic Studies program (CRES) is an interdisciplinary academic home for the study of race and ethnicity. In this program students learn about the complex interplay of race and ethnicity vis-a-vis gender, class, sexuality, and other social dimensions that shape the diverse experiences of humans over time. Students achieve this understanding by studying (1) the development of unique cultures among marginalized racial and ethnic groups and (2) the power relations which produce marginalization and injustice on the basis of race and ethnicity, among other intersecting categories of difference. As a reflection of the fifty-year intellectual tradition of ethnic studies, Gonzaga's CRES program is both student-driven and student centered. Thus, it remains in dialogue with student movements for social and racial justice in the U.S. and transnationally. This reciprocal relationship provides students with the historical and academic grounding necessary to work toward justice, but also serves to re-invigorate the program with new knowledge that emerges from social justice movements.

The minor is open to all Gonzaga undergraduate students, and students considering a minor in Critical Race and Ethnic Studies are encouraged to enroll in the required introductory course, CRES 101.

Courses fulfilling elective requirements will be approved by the Department Chair.

Critical Race and Ethnic Studies Minor: 21 credits

Lower Division

CRES 101 Introduction to Race and Ethnic Studies 3 credits

One of the following two courses: 3 credits

CRES 201 Race and Pop Culture

CRES 202 Racing Space and Place

Upper Division

One of the following two courses: 3 credits

CRES 301 Intersectionality and Race

CRES 302 Race, Resistance, and Resilience

CRES elective (course of choice, any level)	3 credits
Electives (can come from CRES or be Accepted Electives* from other departments)	6 credits
CRES 499 Symposium	3 credits

* Courses fulfilling Accepted Elective requirements not currently crosslisted will be approved by the Department Chair.

Courses:

CRES 101 Introduction to Race and Ethnic Studies credit(s): 3

This course will introduce students to key theories and debates within the field of race and ethnic studies. Students will analyze definitions of race and ethnicity, both inside and outside of the United States; cultural practices of resistance; various theories central to race and ethnic studies; the intersection of race with other forms of difference such as gender, class, and sexuality; and the connections between social justice and community engagement in ethnic studies. Students will read a variety of academic and cultural texts which illustrate the interdisciplinary scope in Critical Race and Ethnic Studies. Students will explore the course topics and issues through readings, discussions, lectures, films, short stories, and music.

Fulfills the following degree requirement(s): CRES - Elective course, Core: Social Justice, Core: Social/Behavioral Sci

CRES 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga’s Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): CRES - Elective course, Core: First Year Seminar

CRES 201 Race and Popular Culture credit(s): 3

This course will focus on the historical and contemporary popular culture representations of race in the United States. In particular, we will examine stereotypes, archetypes, and caricatures of People of Color in the U.S., in order to better understand the historical roots of these images as well as their pervasiveness in contemporary representation. We will also examine the impact of these representations, discussing how stereotypes and archetypes both shape and reflect structural inequalities.

Fulfills the following degree requirement(s): CRES - Required course, Core: Social Justice, and Core: Social and Behavioral Sciences

CRES 202 Racing Space and Place credit(s): 3

This course will examine the historical and contemporary relationship among race, ethnicity, power, and space in the U.S. We will explore issues such as segregation, sub/urban planning, housing, imperialism, immigration, policing and incarceration, and others in order to better understand how race, racism, and discrimination shape the physical layout of the nation-state and the lived experiences of People of Color.

Fulfills the following degree requirement(s): CRES – Required course, Core: Social Justice, and Core: Social and Behavioral Sciences

CRES 106 Asian and Pacific Islander American History credit(s): 3

Examines U.S. history by centering Pacific Islander/Americans and Asian Americans. Provides an introduction to immigration, community-formation, colonization, racialization, labor, legal restrictions, activism, and justice movements.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 203 Introduction to Latina/o/x Studies credit(s): 3

This course is an introduction to U.S. Latina/o/x Studies and provides an understanding of the trajectory of the field of U.S. Latina/o/x Studies as a distinct academic discipline often existing alongside or within the broader field of Ethnic Studies. This course centers conversations of identity formation, cultural ideologies, social movements and organizing, the development of "Latina/o/x" as a deeply complex and often problematic ethnoracial category, literature and film, and other aspects of Latina/o/x Studies.

Fulfills the following degree requirement(s): CRES - Elective course and Core: Social Justice

CRES 204 Introduction: Asian American Studies credit(s): 3

Introduction to Asian American Studies Asian American grounds its examination of "Asian American" from interdisciplinary scholarship in the field taking seriously the material impacts of white supremacy, settler colonialism, heteropatriarchy, and US imperialism vis-à-vis the everyday lives of Native Hawaiians, Pacific Islanders, and Asian Americans. The course introduces the political formation of Asian American as a bridge to understand race, war, U.S. imperialism, gender, sexuality, nation, racial capitalism, memory, collective healing, grassroots organizing, labor, and resistance. Analyzing the racialization of Asian Americans, its tethering to other groups and each moment's historically specific contextual holds, the course pursues an intellectual, transnational, and feminist inquiry into the meaning of rights, solidarity, and justice reckoning with today's iteration of anti-Asian violence while providing a general overview of key works, theories, and practices emergent in the field.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 280 Special Topics credit(s): 3

Course repeatable for 6 credit.

Explores material of timely, special, or unusual interest not contained in the regular course offerings.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 252 African American Religions credit(s): 3

Introduces students to the variety of African American religions that developed in the Americas during and after the Atlantic slave trade up to today. Within various forms of Christianity, Islam, and even Hip Hop, we will examine the interplay between religion, race, colonialism, and self determination. Offered every other semester.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 301 Intersectionality and Race credit(s): 3

Framed through the lens of intersectionality, or what key theorist Kimberle Crenshaw describes as "a heuristic term to focus attention on the vexed dynamics of difference and the solidarities of sameness in the context of antidiscrimination and social movement politics," this course examines the impact of Intersectionality Theory as a major framework in the field of Critical Race and Ethnic Studies. While Intersectionality Theory and its theoretical and practical antecedents are used in a variety of disciplines, it has particular centrality in CRES and the

intellectual and social movements that led to the development of this field. Furthermore, Intersectionality has shaped the theoretical and methodological foci of CRES, producing both pedagogy and scholarship that centralizes a critical, multi-axis approach to racial inequity.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 302 Race, Resistance, and Resilience credit(s): 3

This course will examine the dual roles of resistance and resilience in historical and contemporary struggles for social change and social justice centered around race and racial inequity. Throughout the semester, we will focus on understanding, comparing, and contrasting core ideological frameworks present in social justice organizing to interpret their strengths, weaknesses and overall impact on achieving racial equity and justice. We will also consider the tactics used in various movements, again considering their utility and impact as well as how they have been replicated and modified. Finally, we will consider the possibilities of methods of resistance that did not necessarily arise as part of a social movement, but contributed to the well-being and survival of individuals and communities of Color.

Fulfills the following degree requirement(s): CRES - Elective course and CORE: Social Justice

CRES 303 Queering Latinidades credit(s): 3

This course will examine Latina/o/x identity, experience, history, and cultural productions as they intersect with lesbian, gay, bisexual, transgender, gender non-conforming, and queer identities. In this course, we will explore how race/ethnicity, immigration experiences, and cultural identity shape queerness and vice versa. Using an intersectional framework, we will also consider how queer Latinas/os/xs have been elided in queer histories of the United States, as well as how their active presence in shaping these movements.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 304 (Re)Producing Race and Family credit(s): 3

Whose children are children? Who is a parent? Whose culture is worth reproducing? Who should be the “next generation?” This course examines the racialization of (re)production, parenting, and family-building with a focus on social, political, and economic ideologies and histories of racism, settler colonialism, and U.S. imperialism. We examine (re)production in capitalist frameworks where bodies of color are laboring bodies whose (re)productive capabilities (re)produce ideologies and structures of power, to their detriment. Furthermore, we consider how the (re)production of racially and ethnically marginalized communities (birthing; caring for and teaching children; community-building) is impacted by inequities in power, privilege, race, and gender that pathologize and limit the (re)productive decisions, choices, and experiences of families and communities of color.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 305 Queer of Color Theories credit(s): 3

Using a critical race and ethnic studies framework, this course takes a critical approach to the study of sexualities and race by asking us to challenge our assumptions and everyday knowledges about identities, such as race, class, gender, sexuality, and ability. The readings will give you an understanding and vocabulary of queer theory with a specific focus on queer of color theories as theorized by critical race scholars or scholars using a critical race framework.

Fulfills the following degree requirement(s): CRES - Elective course and CORE: Social Justice

CRES 306 Monstrosity and Race credit(s): 3

Monsters retain prominence across decades in popular culture. In this class we will explore what the figure of the monster can tell us about the cultural context in which it emerges, particularly in regards to race, class, gender, ability, and sexuality. We will explore monsters literally as well as symbolically, as we work toward critical readings strategies to engage popular culture from a critical race and ethnic studies perspective.

Fulfills the following degree requirement(s): CRES - Elective course and CORE: Social Justice

CRES 308 Hip-Hop Feminisms credit(s): 3

Using a Critical Race and Ethnic Studies framework this course explores the relationship between feminisms, hip-hop culture, and rap by centering the experiences of women in hip-hop along with feminist critiques of rap and hip-hop culture. We will begin by theorizing hip-hop feminism, and then focus on particular artists to consider the specific critiques they offer around race, class, gender, sexuality, ability, and size.

Fulfills the following degree requirement(s): CRES - Elective course and CORE: Social Justice

CRES 380 Special Topics credit(s): 3

Course repeatable for 12 credit.

Selected topics in Critical Race and Ethnic Studies.

Fulfills the following degree requirement(s): CRES - Elective course

CRES 390 Independent Study credit(s): 1-4

Course repeatable for 12 credit.

To be determined by the faculty.

CRES 432 Core Integration Seminar credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world"? by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world. The capstone course in the critical race and ethnic studies program provides an opportunity for a special kind of faculty and student conversation. Responsibility for organizing and structuring this course will rotate among CRES faculty. Topics will vary. Regardless of the text or topics, the goal will be to create a conversation in which students assume significant responsibilities. All students are expected to complete a major research project using the concepts and perspectives of CRES scholarship, and to present their work to the class and faculty evaluators. Spring.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

CRES 490 Independent Study credit(s): 1-4

Course repeatable for 12 credit.

To be determined by faculty.

CRES 497 Internship**credit(s): 0-6**

Course repeatable for 12 credit.

Professional experience in a related field. Students must take the initiative to contact an agency or business and find a faculty member willing to supervise the internship. Fall, Spring, and Summer.

CRES 499 Symposium**credit(s): 3**

This capstone course in the Critical Race and Ethnic Studies program provides an opportunity for a special kind of faculty and student conversation. Responsibility for organizing and structuring this course will rotate among CRES faculty. Topics will vary. Regardless of the text or topics, the goal will be to create a conversation in which students assume significant responsibilities. All students are expected to complete a major research project using the concepts and perspectives of CRES scholarship, and to present their work to the class and faculty evaluators. Spring.

Fulfills the following degree requirement(s): CRES - Elective course

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): CRES 101, minimum grade: D (or concurrent)

Dance

Chair and Program Director-Dance: Suzanne Ostersmith

Professors: C. Pepiton

Associate Professors: S. Ostersmith, L. Stamoolis (Chair and Program Director of Theatre Arts)

Lecturers: B. Edwards, P. Erickson

Adjuncts: C. Forthun-Bruner, S. Glesk, J. Lyons-Wolf, K. Parbon

The department offers two majors and three minors:

Bachelor of Arts, Dance major

(required concentration in either Dance Pedagogy or Performance)

Bachelor of Arts, Theatre Arts major

(required concentration in either Performance or Design, Technology, and Management [DTM])

Minor in Dance

Minor in Theatre Arts

Minor in Interdisciplinary Arts

Since the earliest human civilizations, theatre and dance have been integral to the fabric of human communication. The process of performance is woven into personal, community, business, artistic, and religious life - and into the dialogue among the cultures and nations of the world.

Critical examination of this process describes, interprets, and evaluates these relationships. As faculty in the Department of Theatre & Dance, we seek to assist students in becoming effective, creative, and ethically responsible communicators who can understand theoretical choices and design, express, interpret, and critically evaluate oral, written, nonverbal, and electronically mediated messages.

Theatre & Dance, as academic disciplines, draw upon the humanities, the social and natural sciences, and the professions. The curriculum is both conceptual and applied. Courses prepare students for an in-depth exploration of one or more areas of inquiry. Teaching and learning methods combine lectures, seminars, workshops, production, and performance. Theatre & Dance at Gonzaga reflects the Jesuit, Catholic, Humanistic character and liberal arts tradition of the institution.

Mission Statement

The Theatre & Dance Department at Gonzaga University is committed to training and developing artists who confront the important issues of our lives through their engagement with the art forms of live theatre and dance.

Students study and critically reflect on a broad range of literature, theatrical forms, and techniques in order to promote an active engagement with the foundations of our culture and to promote the formation of a character that reflects the faith and justice mission of Gonzaga University. The intended outcome of this study and reflection is to provide service to our audience and the broader community and to promote the pursuit for social justice.

Our purpose is to serve young artists hoping to apply disciplined training and thoughtful work to search for justice and the greater good of those around them.

Students interested in a minor that combines the strengths of theatre, dance, visual arts, and music should visit the Interdisciplinary Arts page for more information about the Interdisciplinary Arts Minor.

Master of Arts in Communication and Leadership Studies (COML) and Master of Arts in Organizational Leadership (ORGL) Graduate Pathways Program:

Majors interested in pursuing a Master of Arts in Communication and Leadership Studies (COML) or a Master of Arts in Organizational Leadership (ORGL) may apply to the graduate program at the end of the academic year immediately preceding their final year of undergraduate study. Those who meet the COML or ORGL admissions standards will be granted provisional acceptance. During their final year of undergraduate study, these students will be able to enroll in up to six graduate-level COML or ORGL credits in addition to their undergraduate course load, with no additional or separate charge for graduate credits. Graduate Pathway students will be limited to a maximum of 18 credits per semester, including graduate credits, in each of the two semesters of their final year of undergraduate study.

B.A. Major in Dance: 35 credits (required concentration in Pedagogy or Performance)

Lower Division (14 credits)

DANC 165 Interdisciplinary Arts	3 credits
DANC 170 Principles of Dance Conditioning	3 credits
THEA 260 Production Lab	1 credit

DANC 270 Dance History	3 credits
<i>Two of the following six technique/practice courses:</i>	4 credits
DANC 105 Jazz Dance I	
DANC 110 Contemporary/Modern Dance I	
DANC 115 Ballet I	
DANC 205 Jazz Dance II	
DANC 210 Contemporary Modern II	
DANC 215 Ballet II	

Upper Division (13 credits)

Two of the following five courses or combinations.

DANC 300 Musical Theatre Dance	3 credits
DANC 301 Pop Culture Dance	3 credits
DANC 305 Jazz Dance III + DANC 405 Jazz Dance Performance	3 credits
DANC 310 Contemporary/Modern Dance III +DANC 410 Performance	3 credits
DANC 315 Ballet III + DANC 415 Ballet Performance	3 credits

Required theory and practice:

DANC 465 Choreography	3 credits
DANC 470 Strategies for Dance Instruction	3 credits
DANC 455 Dance Senior Seminar	1 credit

Students must select one of two concentrations:

Dance Pedagogy concentration: **8 credits**

Required:

DANC 460 Advanced Dance Production	1 credit
DANC 471 Dance Pedagogy	2 credits

Electives:

DANC 150 Dance: Culture and Art	3 credits
DANC 180/280/380 Special Topics	3 credits
DANC 201 Learning Theories	3 credits
DANC 221E Differentiation Instruction/Assessment	4 credits
THEA 237 Costume Design	3 credits
THEA 239 Lighting Design	3 credits
THEA 260 Production Lab	1 credit
EDPE 311 Exercise & Sport Instruction Methods	3 credits
DANC 405, 410, or 415	1-3 credits
DANC 466 Advanced Composition	1 credit
DANC 467 Choreography Lab	1 credit
DANC 497 Internship (not to exceed 3 credits)	1-3 credits

**Students taking EDTE 221E must enroll concurrently in DANC 465

**Students taking EDPE 311 may have EDPE 190 prerequisite waived

<i>Performance concentration:</i>	8 credits
Required:	
DANC 460 Advanced Dance Production	1 credit
DANC 466 Advanced Composition	1 credit
One of the following three courses:	2 credits
DANC 305 Jazz Dance III	
DANC 310 Contemporary/Modern Dance III	
DANC 315 Ballet III	
Electives:	4 credits
THEA 120 Voice Movement	
DANC 180/280/380 Special Topics	
EDPE 224 Nutrition for Health and Fitness	
THEA 239 Lighting Design	
DANC 467 Performance Lab	
DANC 360 Company Lab	
DANC 405/410/415	
DANC 471 Dance Pedagogy	
DANC 497 Internship	

Minor in Dance: 23 credits

Lower Division (11 credits)

One of the following theory/practices:

DANC 170 Principles of Dance Conditioning	3 credits
DANC 165 Interdisciplinary Arts	3 credits

Two of the following six technique/practice courses: 4 credits

- DANC 105 Jazz Dance I
- DANC 110 Contemporary/Modern Dance
- DANC 115 Ballet I
- DANC 205 Jazz Dance II
- DANC 210 Contemporary/Modern II
- DANC 215 Ballet II

Required theory and practice:

DANC 270 Dance History	3 credits
DANC 470 Strategies for Dance Instruction	3 credits

Upper Division (9 credits)

One of the following 3-credit performances: 3 credits

- DANC 300 Musical Theatre Dance
- DANC 301 Pop Culture Dance
- DANC 305 Jazz III + DANC 405 Jazz Performance
- DANC 310 Contemporary/Modern Dance III + DANC 410 Performance
- DANC 315 Ballet III + DANC 415 Ballet Performance

Select one of the following:

THEA 260 Production Lab	1 credit
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DANC 360 Company Lab
DANC 465 Choreography

1 credit
3 credits

Courses:

DANC 105 Jazz Dance I **credit(s): 2**

Course repeatable for 4 credit.

In this course, students learn the vocabulary, history, elementary principles and techniques of Jazz Dance. Students also develop an understanding and appreciation of dance as a disciplined art form and integral part of the performing arts. This is a beginning level course.

DANC 110 Contemporary/Modern Dance I **credit(s): 2**

Course repeatable for 4 credit.

In this course, students learn the vocabulary, history, elementary principles and techniques of Contemporary and Modern Dance. Students also develop an understanding and appreciation of dance as a disciplined art form and integral part of the performing arts. This is a beginning level course. Fall.

DANC 115 Ballet I **credit(s): 2**

Course repeatable for 4 credit.

In this course, students learn the vocabulary, history, elementary principles and techniques of Ballet. Students also develop an understanding and appreciation of Ballet as a disciplined art form and integral part of the performing arts. This is a beginning level course.

DANC 155 Dance: Culture and Art **credit(s): 3**

This course provides the necessary skills and understanding for an appreciation of the social, physical, and artistic qualities of dance through various cultures. Physical learning of a number of social/ballroom dance forms is paired with cognitive and emotional understanding of the countries and cultures from which they were derived. Students study the concepts of lead/follow, the transition from social to concert dance as a global phenomenon and gain an understanding of dance from a global perspective.

Fulfills the following degree requirement(s): Core: Fine Arts and Design, Core: Global Studies

DANC 165 Interdisciplinary Arts **credit(s): 3**

This course uses concepts of theatre-, dance-, and visual arts-based research to solve problems. Students will be exposed, through lecture and assignments, to theories and methods from each art form and will learn to integrate the art forms to explore complex concepts through performance.

DANC 170 Principles of Dance Conditioning **credit(s): 3**

This course introduces foundations of human movement and Functional Awareness Principles. This course is designed to encourage optimal use of the dancer's body through exploration of proper alignment techniques, somatic practices and human anatomy and physiology. Increased knowledge of human movement empowers students to prevent injury and enhance longevity and performance. Students are challenged to explore course content through lectures, classroom discussion, and practical dance training exercises.

DANC 180 Topics in Dance **credit(s): 1-4**

Course repeatable for 9 credit.

DANC 190 Independent Study credit(s): 1-6

Course repeatable for 6 credit.

Topic to be determined by instructor.

DANC 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

DANC 205 Jazz Dance II credit(s): 2

Course repeatable for 4 credit.

This intermediate course in jazz dance focuses on technique, vocabulary, choreography and performance studies.

DANC 210 Contemporary/Modern Dance II credit(s): 2

Course repeatable for 4 credit.

In this intermediate course, students continue to learn the vocabulary, principles, and techniques of Contemporary Modern Dance. Students also develop an understanding and appreciate of dance as a disciplined art form and integral part of the performing arts.

Prerequisite(s): DANC 110

DANC 215 Ballet II credit(s): 2

Course repeatable for 8 credit.

This intermediate course in Ballet builds upon the elementary principles and techniques of Ballet I, focuses on technique, an expanded dance vocabulary, and a survey of ballet styles and methodology.

DANC 270 Dance History credit(s): 3

This course introduces students to major concepts and approaches in the study of dance as a political, historical, and artistic practice. Students will look at dance as a reflection of culture and as an art form from earliest societies to the present, focusing on western dance history and its multi-cultural influences.

Fulfills the following degree requirement(s): Core: Fine Arts and Design and now Writing Enriched

DANC 280 Special Topics credit(s): 1-4

Course repeatable for 9 credit.

Topic to be determined by instructor.

DANC 285 Interdisciplinary Arts E-portfolio credit(s): 0

Course repeatable for 8 credit.

In this zero credit course taken each fall of sophomore and junior years, Interdisciplinary Arts Minor students will submit work from the year before into an e-portfolio format. This will be reviewed by the Director and the student in a scheduled meeting, reviewing ideas for the senior synthesis project and ensuring they are on track with coursework.

- DANC 290 Independent Study** **credit(s): 1-6**
 Course repeatable for 6 credit.
 Topic to be determined by instructor.
- DANC 300 Musical Theatre Dance** **credit(s): 3**
 Course repeatable for 6 credit.
 In this course, students learn Musical Theatre Dance and History. By examining the unique aspects of multiple styles of dance and physically learning numbers from musical theatre, students prepare for the Spring Dance Concert. This course is a performance-focused study of Dance, but also includes research and presentations in Musical Theatre Dance history.
- DANC 301 Pop Culture Dance** **credit(s): 3**
 Course repeatable for 6 credit.
 This course is an examination of the history and the physical styles of hip hop, fusion, funk, contemporary, and other pop culture genres of dance. This experiential dance class includes a public performance in the Spring Dance Concert. First level class recommended. Spring, odd years.
- DANC 305 Jazz Dance III** **credit(s): 2**
 Course repeatable for 8 credit.
 Advanced course in Jazz focuses on technique and individual artistry and includes a survey of relevant dance works, companies, and careers in dance. When taken in conjunction with DANC 405 students perform in the Spring Dance Concert.
- DANC 310 Contemporary/Modern III** **credit(s): 2**
 Course repeatable for 8 credit.
 Advanced course in Contemporary Modern Dance focuses on technique and individual artistry and includes a survey of relevant dance works, companies, and careers in dance. When taken in conjunction with DANC 410 students perform in the Spring Dance Concert.
- DANC 315 Ballet III** **credit(s): 2**
 Course repeatable for 8 credit.
 Advanced course in Ballet focuses on technique and individual artistry and includes a survey of relevant dance works, ballet companies, and careers in dance. In addition, this course provides students with an opportunity to continue their study of classical ballet technique with an emphasis on technical and artistic development through their participation in the Spring Dance Concert.
- DANC 360 Dance Company Lab** **credit(s): 1**
 Course repeatable for 6 credit.
 Participation as a performer in a Dance Program company or ensemble. Spring and Fall. Course repeatable for 6 credits
- DANC 380 Topics in Dance** **credit(s): 1-4**
 Course repeatable for 12 credit.
 Topic to be determined by instructor.
- DANC 390 Independent Study** **credit(s): 1-6**
 Course repeatable for 6 credit.

DANC 405 Jazz Dance Performance **credit(s): 1**

Course repeatable for 2 credit.

Advanced course in Jazz Dance focuses on the application of technique, individual artistry and choreography in performance. Dancers participate in public performances of the Spring Dance Concert. Spring.

Corequisite(s): DANC 305

DANC 410 Contemporary/Modern Performance **credit(s): 1**

Course repeatable for 2 credit.

Advanced course in Contemporary and Modern Dance focuses on the application of technique, individual artistry and choreography in performance. Dancers participate in public performances of the Spring Dance Concert. Spring.

Corequisite(s): DANC 310

DANC 415 Ballet Performance **credit(s): 1**

Course repeatable for 2 credit.

This advanced course in Ballet has a co-requisite of DANC 315 Ballet III, which focuses on technique and individual artistry and includes a survey of relevant dance works, ballet companies, and careers in dance. In addition, this course provides students with an opportunity to continue their study of classical ballet technique with an emphasis on technical and artistic development through their participation in the Spring Dance Concert.

Corequisite(s): DANC 315

DANC 455 Dance Senior Seminar **credit(s): 1**

A career preparation and individual artistic development experience in a cohort and mentorship setting. Students engage in self-initiated as well as guided exercises to prepare for life and career after graduation. Fall.

Restriction(s):

Must be in the following Major(s): Dance, Dance

DANC 460 Advanced Dance Production **credit(s): 1**

Course repeatable for 2 credit.

Students learn the specifics of how to produce dance concerts. The learning experience includes advanced participation in producing fall dance concerts including but not limited to marketing, production meeting, theatre preparation, lighting, sound, house management etc.

Restriction(s):

Must not be in the following Major(s):

DANC 465 Choreography **credit(s): 3**

This course is about finding one's 'voice' through the study and application of the art of dance composition. Choreography in dance history, contemporary methods, dynamics, rhythm, design, motivation, gesture and improvisation are explored as basic elements for building dance. The final project will be presenting a work in the Gonzaga Student Choreography Concert. Students will leave this course able to express their creative ideas through the artistic medium of dance. It is strongly recommended that students participate in the Student Choreography Concert as a dancer prior to taking this course.

DANC 466 Advanced Composition **credit(s): 1**

Course repeatable for 2 credit.

This course builds on the coursework from THEA 425. With a foundation in dance conceptualization, analysis, communication, and choreography, students create advanced compositions by further developing their voice as a dance artist. Students in this course have the opportunity to observe, reflect and revise and further develop their individual creative voice.

Prerequisite(s): DANC 465

DANC 467 Dance Choreography Lab **credit(s): 1**

Course repeatable for 6 credit.

Participation as a choreographer (working closely with faculty advisor(s)) in a Department dance company/ensemble or Theatrical production. Spring and Fall.

Prerequisite(s): DANC 465

DANC 470 Strategies: Dance Instruction **credit(s): 3**

In this course, students learn a variety of dance teaching styles, strategies, curriculum planning, and evaluation methods. Students will develop their own teaching style through a service-learning practicum leading an after-school creative dance program (ZagDance). Students will examine how economic factors including access, transportation and support can hinder the children's previous exposure to dance class. Emphasis is placed on teaching basic creative dance to build a positive classroom environment while meeting the needs of various levels of elementary dance students.

Fulfills the following degree requirement(s): Core: Social Justice

Restriction(s):

Must be in the following Major(s): Dance, Dance

DANC 471 Dance Pedagogy **credit(s): 2**

Course repeatable for 8 credit.

Students will continue to explore a variety of pedagogical styles and strategies, curriculum planning and evaluation methods in the field of dance.

Restriction(s):

Prerequisite(s): DANC 470 (or concurrent)

DANC 497 Internship **credit(s): 1-3**

Course repeatable for 6 credit.

Topic and work load to be determined by student and instructor.

Restriction(s):

Must be in the following Major(s): Dance, Dance

English

Chairperson: Heather C. Easterling

Professors: M. Bolton, D. Butterworth, A. Ciasullo, E. Cooley (Emerita) B. Cooney, H. Easterling, J. Eliason, M. Herzog (Emeritus), T. Marshall, J. Maucione, J. Miller, M. Pringle, I. Ranum, P. Terry (Emerita), L. Tredennick

Associate Professors: C. Bollig, J. Dodd, Y. Kang, K. Roden, J. Thayer, A. Wadden (Emeritus)

Assistant Professors: M. McLeod

Senior Lecturers: H. Herrick, M. Pajer, D. Tagnani

Lecturers: J. Anthony, S. Kersey, R. McWilliams

The department offers one major and one minor:

Bachelor of Arts, English major (with a required concentration in either Literature or Writing)

Minor in English

The Gonzaga University English Department is a community of scholars, readers, and writers dedicated to helping students form a deeper sense of themselves and the world through the study and composition of texts. As members of this disciplinary community, we celebrate the beauty and power of creativity, engaging with the ways language and literature reflect and explore knowledges, values, and experiences. We invite students to develop an understanding of self and others by exploring the narratives of our local and global communities: past, present, and future. Our commitment to a sophisticated understanding of a diversity of texts and literacies prepares students for success as professionals and citizens. In alignment with Gonzaga University's Mission, we develop whole persons devoted to critical thought, reflection, social justice, and life-long learning.

English Department courses fulfill the requirements of the Core curricula of the University and constitute a Bachelor of Arts degree in English; they provide majors in other disciplines with further experience in and appreciation for literature and writing; they offer majors and minors in English engagement with the literary heritage of Western and non-Western traditions; and they develop students' mastery of the conventions and nuances of written prose.

The University Core curriculum requires three semester hours of Writing (ENGL 101 or ENGL 200) and three semester hours of Literature. Most English 100- and 200-level literature courses will fulfill the University Core Literature requirement.

English majors earning a secondary teaching credential must take one 3-credit multicultural literature course and a writing pedagogy course, either ENGL 390 or ENGL 395.

Because we believe that effective writing is essential for professional, personal, and intellectual development, the English Department directs the operation of a Writing Center open to the Gonzaga community.

Founded on solid introductory writing and literature courses and covering a variety of genres, time periods, and theoretical approaches to texts, the English major offers two areas of emphasis: a Literature Concentration and a Writing Concentration. Students in both concentrations take the same foundational courses, worth a total of 12 credits: a University Core Writing course, lower-division courses on English form and English history, and an upper-division course on literature before 1660. All English majors must also take a course with a multicultural distribution. Once students decide which concentration they will pursue, they study the curriculum specific to each concentration.

B.A. Major in English: 39 Credits

Courses required for both concentrations

Lower Division

One of the following University Core Writing courses: 3 credits

ENGL 101 Writing

ENGL 200 Intermediate Composition

One of the following English Form courses: 3 credits

ENGL 102 Introduction to Literature

ENGL 105 Themes in Literature

ENGL 106 Special Topics in Multicultural & World Literature

ENGL 201 Studies in Poetry

ENGL 202 Studies in Fiction

ENGL 203 Studies in Drama

ENGL 270 Film Form

ENGL 286 Special Topics in Form

HONS 287 *Honors Special Topics in Literature

One of the following English History courses: 3 credits

ENGL 205 Studies in Shakespeare

ENGL 206H Honors Literature II

ENGL 207 Literature of Western Civilization I

ENGL 208 Literature of Western Civilization II

ENGL 210 British Literature Survey I

ENGL 220 British Literature Survey II

ENGL 230 Survey of American Literature

ENGL 240 Topics: Multicultural Literature

ENGL 241 Literatures of Alaska and Hawai'i

ENGL 260 Topics: World Literature

ENGL 271 Film History

ENGL 287 Special Topics in Literary History

HONS 287 *Honors Special Topics in Literature

Upper Division

300/400 Literature 1660 or Before (see list of courses below under the Literature Concentration) 3 credits

300/400 Multicultural Distribution courses: (may double count with another requirement) 0-3 credits

ENGL 306 *Special Topics in Writing
 ENGL 314 Multicultural Literature of the US
 ENGL 316 Studies in Post-Colonial Literature
 ENGL 318 African-American Literature
 ENGL 366 *Themes in Literature (Florence)
 ENGL 406 *Advanced Special Topics Writing
 ENGL 418 American Indian Literatures
 ENGL 440 Literature of the Americas
 ENGL 455 *Special Topics in American Literature
 ENGL 460 *Studies in Women Writers
 ENGL 466 *Topics in Literature
 ENGL 467 *Special Topics

*Indicates Department Chair's approval needed for using this course as a requirement.

Students must choose one of the following two concentrations:

Literature Concentration: 27 credits

Literature 1660 or Before 6 credits

ENGL 323 Medieval Literature: Rage and Romance
 ENGL 330 Shakespeare
 ENGL 331 Renaissance Literature
 ENGL 366 *Topics in Literature (Florence)
 ENGL 367 Love in the Renaissance (Florence)
 ENGL 420 Beowulf: In-Laws and Outlaws
 ENGL 423 Chaucer
 ENGL 433 Milton and His Contemporaries
 ENGL 434 Tudor and Stuart Drama
 ENGL 460 *Studies in Women Writers
 ENGL 466 *Topics in Literature
 ENGL 472 Topics in Literature (Pre-1660 or Before)

British Literature 1660-1914 3 credits

ENGL 340 Romantic Age
 ENGL 342 Victorian Era
 ENGL 348 Restoration and 18th Century Literature
 ENGL 350 20th Century British Literature
 ENGL 360 *Modern Drama
 ENGL 436 18th Century British Novel
 ENGL 438 Restoration and 18th Century Drama
 ENGL 446 19th Century British Novel
 ENGL 460 *Studies in Women Writers
 ENGL 462 *Studies in the Novel
 ENGL 466 *Topics in Literature
 ENGL 473 Topics in British Literature: 1660-1914

American Literature Pre-1914	3 credits
ENGL 310 American Literature I	
ENGL 311 American Literature II	
ENGL 313 American Narratives	
ENGL 318 *African-American Literature	
ENGL 413 19th Century American Novel	
ENGL 455 *Special Topics in American Literature	
ENGL 457 Melville	
ENGL 459 American Realism & Naturalism	
ENGL 460 *Studies in Women Writers	
ENGL 462 *Studies in the Novel	
ENGL 466 *Topics in Literature	
ENGL 471 Topics in Pre-1914 American Literature	
Literature Post-1914	6 credits
ENGL 312 American Literature III	
ENGL 314 Multicultural Literature of the United States	
ENGL 318 African-American Literature	
ENGL 360 *Modern Drama	
ENGL 368 20th Century Novel (Florence)	
ENGL 394 *Topics in Film	
ENGL 414 20th Century American Novel	
ENGL 415 Recent American Writing	
ENGL 418 American Indian Literatures	
ENGL 440 Literature of the Americas	
ENGL 450 20th Century British Novel	
ENGL 455 *Special Topics in American Literature	
ENGL 460 *Studies in Women Writers	
ENGL 462 *Studies in the Novel	
ENGL 464 Studies in 20th Century Poetry	
ENGL 465 Studies in 20th Century Drama	
ENGL 466 *Topics in Literature	
ENGL 474 Topics in Literature Post-1914	
300/400 Non-Literature Broadening	3 credits
300/400 Level Writing (see Writing Concentration below for writing courses)	
ENGL 480 Critical Theory	
ENGL 485 Poetics	
ENGL 497 Internship	
300/400 Electives	6 credits
ENGL 495 Senior Seminar	3 credits
ENGL 499 Senior Project	0 credits

Note: No single course can satisfy more than one requirement, except for the Multicultural Distribution courses listed.

*Indicates Department Chair's approval needed for using this course as a requirement.

Writing Concentration: 27 Credits

300/400 Literature Electives (see Literature Concentration above for literature courses) 12 credits

Five of the following Writing courses: 15 credits

ENGL 300 Research and Writing for Major

ENGL 301 Poetry Writing

ENGL 302 Fiction Writing

ENGL 303 Creative Non-Fiction Writing

ENGL 304 Professional Writing

ENGL 305 The Writing Traveler

ENGL 306 Special Topics in Writing

ENGL 307 Typography and Book Design

ENGL 308 The Art(s) of Editing

ENGL 309 Writing for Social Action

ENGL 390 Writing Center Practicum

ENGL 395 The Teaching of Writing

ENGL 401 Advanced Poetry Writing

ENGL 402 Advanced Fiction Writing

ENGL 403 Advanced Nonfiction Writing

ENGL 406 Advanced Special Topics in Writing

ENGL 498 Independent Study

JOUR 420 Literary Journalism

THEA 440 Playwriting

ENGL 496 Writing Senior Project 0 credits

Note: Students must take at least one 400 level Writing course.

Minor in English: 21 Credits

Lower Division

One of the following two courses: 3 credits

ENGL 101 Writing

ENGL 200 Intermediate Composition

One of the following lower division literature courses: 3 credits

ENGL 102 Introduction to Literature

ENGL 105 Themes in Literature

ENGL 106 Special Topics in Multicultural or World Literature

CLAS 220 Intro to Classic Literature

ENGL 201 Studies in Poetry

ENGL 202 Studies in Fiction

ENGL 203 Studies in Drama

ENGL 205 Studies in Shakespeare

ENGL 207 Literature of Western Civilization I

ENGL 208 Literature of Western Civilization II	
ENGL 210 British Literature Survey I	
ENGL 220 British Literature Survey II	
ENGL 230 Survey of American Literature	
ENGL 240 Topics: Multicultural Literature	
ENGL 241 Literatures of Alaska and Hawai'i	
ENGL 260 Topics: World Literature	
ENGL 270 Film Form	
ENGL 271 Film History	
ENGL 285 Special Topics	
ENGL 286 Special Topics in English Form	
ENGL 287 Special Topics in English History	
HONS 287 Honors Special Topics in Literature	
One additional Lower Division OR one Upper Division Course (ENGL 102-489) elective	3 credits
Upper Division	
ENGL 300-ENGL 489 Electives	12 credits

Courses:

ENGL 101 Writing	credit(s): 3
This course helps students develop the foundational skills of critical reading, thinking, analysis, and writing. Students will learn a variety of approaches to writing, sharpen critical reading and information literacy skills, and produce formal and informal texts that ethically and persuasively appeal to a range of audiences for distinct purposes.	
Fulfills the following degree requirement(s): Core: Writing, Core: Writing Enriched	
ENGL 102 Introduction to Literature	credit(s): 3
This course exposes students to a range of literary genres and assists students in developing and articulating ideas about texts in oral and written form.	
Fulfills the following degree requirement(s): Core: Literature	
ENGL 105 Themes in Literature	credit(s): 3
Course repeatable for 9 credit.	
This course introduces students to literary study through the exploration of a particular theme. This course exposes students to a range of literary genres and assists students in developing and articulating ideas about texts in oral and written form.	
Fulfills the following degree requirement(s): Core: Literature	
ENGL 106 Special Topic: Multicultural and World Literature	credit(s): 3
Course repeatable 2 time.	
This course introduces students to literature through works produced by different minority groups in America and/or by cultures throughout the world. This course exposes students to a	

range of literary genres and assists students in developing and articulating ideas about texts in oral and written form.

Fulfills the following degree requirement(s): Core: Literature

ENGL 190 Directed Study

credit(s): 1-3

Course repeatable for 12 credit.

Topic to be determined by faculty. Permission from Department Chair required.

ENGL 193 First Year Seminar

credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

ENGL 200 Intermediate Composition

credit(s): 3

Building upon skills developed in earlier courses that required writing, students will engage in a deliberate study of the art and craft of writing and give special emphasis to building a multi-genre portfolio of their original writing.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Writing, Core: Writing Enriched

ENGL 201 Studies in Poetry

credit(s): 3

Course repeatable for 9 credit.

The study of poetry, with emphasis on the major elements: imagery, tone, rhythm, etc.; practice in effective critical writing focused on explication and interpretation of poems.

Fulfills the following degree requirement(s): Core: Literature

ENGL 202 Studies in Fiction

credit(s): 3

The study of fiction, with emphasis on the major elements of narrative form: plot, character, point of view, etc.; practice in effective critical writing focused on textual analysis and interpretation of short stories and novels.

Fulfills the following degree requirement(s): Core: Literature

Equivalent(s): WGST 220

ENGL 203 Studies in Drama

credit(s): 3

The study of drama, with emphasis on major elements of dramatic form: action, audience, structure, character, etc.; practice in effective writing focused on close reading and interpretation of plays. Readings will include a variety of types and forms that reflect the traditions of the genre.

Fulfills the following degree requirement(s): Core: Literature

ENGL 205 Studies in Shakespeare

credit(s): 3

An introductory survey of Shakespeare's histories, comedies, and tragedies as well as the sonnets; close textual analysis.

Fulfills the following degree requirement(s): Core: Literature

ENGL 206H Honors Literature II **credit(s): 3**
 Course repeatable for 6 credit.
 A capstone course for Honors students providing an in-depth study in a specific area of literary approaches. Examples include a specific genre, historical/literary period, theme, author, etc.
Fulfills the following degree requirement(s): ENGL - History
Prerequisite(s): ENGL 101 and HONS 190

ENGL 207 Literature of Western Civilization I **credit(s): 3**
 This course is a survey of Classical, Medieval and Renaissance literature of the Western tradition.
Fulfills the following degree requirement(s): Core: Literature

ENGL 208 Literature Western Civilization II **credit(s): 3**
 This course is a survey of the Western tradition in literature since the Renaissance.
Fulfills the following degree requirement(s): Core: Literature

ENGL 210 British Literature Survey I **credit(s): 3**
 This course is a survey of British literature through the 18th Century.
Fulfills the following degree requirement(s): Core: Literature

ENGL 220 British Literature Survey II **credit(s): 3**
 This course is a survey of British literature since the 18th Century.
Fulfills the following degree requirement(s): Core: Literature

ENGL 230 Survey of American Literature **credit(s): 3**
 This course examines a selection of representative American writers from the Colonial period to the present.
Fulfills the following degree requirement(s): Core: Literature

ENGL 240 Top: Multicultural Literature **credit(s): 3**
 This course examines literature produced by different social, ethnic and racial groups within the United States.
Fulfills the following degree requirement(s): Core: Literature

ENGL 241 Indigenous Literature Alaska Hawai'i **credit(s): 3**
 This course explores Native Hawai'i and Alaska Native cultures through their literatures. We will contextualize nonfiction and literary texts alike in the complicated histories of the lands that are now the United States' 49th and 50th states in terms of their Indigenous cultures and inhabitation, the annexation by the U.S., and the controversial moves into statehood in 1959. We will interrogate historical and contemporary realities and debates within and beyond Alaska and Hawai'i regarding sovereignty movements and U.S. imperialism, positioning these literatures in a trans-Indigenous global context. In this way we will work toward sophisticated understandings of important contributions to contemporary American literatures and the complexities of the contexts that influence literary production in Hawai'i, Alaska, and the world. All of the activities and assignments are designed to demonstrate the role of literature in transnational politics of representation and the importance of formal and informal literary and textual analysis in the development of global awareness and citizenship.
Fulfills the following degree requirement(s): ENGL - History, NTAS - elective, Core: Literature, Core: Global Studies
Equivalent(s): NTAS 241

ENGL 260 Topic: World Literature credit(s): 3

This course examines selected authors, themes and historical periods in world literature with emphasis on works outside the Western tradition.

Fulfills the following degree requirement(s): Core: Literature

ENGL 270 Film Form credit(s): 3

Course repeatable for 9 credit.

This course serves as an introduction to elements of film form and grammar, including narrative, mise-en-scene, cinematography, editing, sound, and acting. Students taking this course will learn how to describe a film's formal qualities and will use these descriptions to make analytical claims about film.

Fulfills the following degree requirement(s): FILM - Film & Form, Core: Literature

Equivalent(s): FILM 201, WGST 221

Restriction(s):

Must not be in the following College/School(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ENGL 101 or ENGL 102

ENGL 271 Film History credit(s): 3

Course repeatable for 9 credit.

This course serves as an introduction to the history of film as a medium, ranging from its original to the current moment. Students taking this course will learn how to situate a film in its historical and cultural contexts and will use these contexts to make analytical claims about film and history.

Fulfills the following degree requirement(s): FILM - Film & History

Equivalent(s): FILM 202

ENGL 285 Special Topics credit(s): 3

This course provides special offerings in English literature that may not fit under other 200-level course offering descriptions. Topics will be approved by the Department Chair.

Fulfills the following degree requirement(s): Core: Writing Enriched

ENGL 286 Special Topics in Form credit(s): 3

This course provides special offerings in English form that may not fit under other 200-level course offering descriptions. Topics will be approved by the Department Chair.

Fulfills the following degree requirement(s): ENGL - Form, Core: Literature

ENGL 287 Special Topics: Literature History credit(s): 3

Course repeatable for 9 credit.

This course provides special offerings in English history that may not fit under other 200-level course offering descriptions. Topics will be approved by the Department Chair.

Fulfills the following degree requirement(s): ENGL - History, Core: Literature

ENGL 291 Directed Study credit(s): 1-3

Course repeatable for 12 credit.

Topic to be determined by faculty.

ENGL 300 Research and Writing for Majors credit(s): 3

Students will learn how to engage in academic discourse through research-informed writing.

Fulfills the following degree requirement(s): ENGL - Writing, Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 301 Poetry Writing credit(s): 3

Course repeatable for 6 credit.2 time.

The practice of poetry writing.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 302 Fiction Writing credit(s): 3

Course repeatable for 6 credit.

The practice of fiction writing.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 303 Creative Non-Fiction Writing credit(s): 3

Course repeatable for 6 credit.2 time.

The practice of writing creative non-fiction.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 305 The Writing Traveler credit(s): 3

The practice of writing poetry, fiction, and essays in the context of foreign travel and residency.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 306 Special Topics in Writing credit(s): 3

Course repeatable 2 time.

A study of writing practices within a focused context. Possible examples include: the intersection of visual media and written texts; ekphrastic writing; nature writing; and/or specific study of the relationship between writing and place.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 312 American Literature III **credit(s): 3**

American literature from 1900 to present.

Fulfills the following degree requirement(s): ENGL - British/American Lit, ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 313 American Narratives **credit(s): 3**

Over 200 years of literature relating to the aspirations and fears of colonists/Americans, from 1620 to 1854.

Fulfills the following degree requirement(s): ENGL - American Lit pre- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 314 Multicultural Literature of the US **credit(s): 3**

Course repeatable for 9 credit.

Literature produced by different social, ethnic and racial groups in the U.S.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 316 Studies in Post Colonial Literature **credit(s): 3**

Course repeatable for 9 credit.

Works written in English by writers responding to the impact of Western colonization and imperialism.

Fulfills the following degree requirement(s): ENGL - Multicultural Distribtn

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 317 Latinx Feminist Literatures **credit(s): 3**

This course examines various forms of historical and contemporary literatures written by Chicana/ o / x and Latina/ o / x feminists and explores the importance of these literary works for the development of Chicanx and Latinx feminisms. We will emphasize the similarities and differences between the Chicanx/Latinx experiences; literary constructions of identity in terms of race, gender sexuality, class, ability and language; and the expression of a Chicanx/Latinx feminist collective and solidary identity.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 318 African-American Literature **credit(s): 3**

A study of African-American writers.

Fulfills the following degree requirement(s): ENGL - British/American Lit, ENGL - Literature post- 1914, ENGL - Multicultural Distribtn

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 323 Medieval Literature: Rage and Romance credit(s): 3

This course is a general survey of English literature in the Middle Ages. Students will encounter the major texts, themes and genres recorded in Old English and Middle English.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 330 Shakespeare credit(s): 3

Selected plays and poetry.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): WGST 327

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 331 Renaissance Literature credit(s): 3

Course repeatable for 6 credit.

British literature covering the period 1500-1700, excluding drama.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): WGST 419

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 340 The Romantic Age credit(s): 3

British writers of the Romantic period, 1798-1832, with emphasis on poetry.

Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 342 Victorian Era credit(s): 3

Course repeatable for 6 credit.

Writers of the Victorian Era, 1832-1901, with emphasis on poetry.

Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 348 Restoration and 18th Century Literature credit(s): 3

Major prose, drama and poetry from 1660-1800, exclusive of the novel.

Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 350 Twentieth Century British Literature credit(s): 3

British literature of the Twentieth Century including poetry, drama and prose.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 360 Modern Drama credit(s): 3

This course will cover a broad sweep of plays from the modern and contemporary eras of drama, emphasizing the beginnings of dramatic modernism in Nineteenth-Century continental

Europe (texts to be read in translation), as well as the development of drama in Britain and America from the late Nineteenth Century to the present.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 366 Themes in Literature

credit(s): 3

Course repeatable for 9 credit.

Topic to be determined by faculty. Florence campus only.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 367 Love in the Renaissance

credit(s): 3

This course addresses the centrality of love in the Renaissance literature in its conceptual and aesthetic complexity. Spring, Florence campus only.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660, ITAL - Studies upp div elec

Prerequisite(s): (ENGL 101 or ENGL 200 or HONS 100) and (ENGL 102-199 or WGST 219)

ENGL 368 20th Century Novel

credit(s): 3

This course, a blend of Comparative Literature and Cultural Studies, is a journey that begins with the Ancient Greeks and somehow also ends with the Ancient Greeks: their culture, their myths, their literature, and their discoveries. Through reading and discussion of some 20th century novels, it will follow the path travelled by modern man and woman by focusing on cultural evolution and attitudes shaped by social context, especially during the 19th and 20th centuries. Fall and Spring, Florence campus only.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 390 Writing Center Practicum

credit(s): 0-3

Course repeatable for 3 credit.

Students tutor in the Writing Center under the supervision of the Writing Center Director. May satisfy the English Teach Ed endorsement writing pedagogies requirement usually fulfilled by ENGL 395, with prior permission from Department Chair. Requires written permission from both the instructor and the Department Chair.

Fulfills the following degree requirement(s): ENGL - Writing

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 391 Directed Study

credit(s): 1-3

Course repeatable for 12 credit.

Topic to be determined by faculty.

ENGL 394 Topics in Film

credit(s): 3

Course repeatable for 9 credit.

An examination of narrower topics in film which may include: the film traditions of other nations (e.g. France, Italy, Japan, or Russia); periods (silent films of the 1920s; French New Wave; American film of the 1970s); or themes (e.g. the Western from Porter to Eastwood or

Shakespeare on film). The course will include significant readings from major critics (e.g. James Agee's reviews and essays) and filmmakers (e.g. Truffaut on the auteur).

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 395 The Teaching of Writing

credit(s): 3

Students will demonstrate their ability to research and respond to theories and practices pertaining to composing and to the teaching of writing. They will acquire this ability, in part, by writing about and discussing observations of writers in action, by reflecting critically on their own composing processes, and by reading and responding to writing from a variety of genres. Key specific learning outcomes include translating theory into practice and discussing the politics and assessment of language as applied to written English in a variety of rhetorical settings. Required for students seeking teacher certification.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 401 Advanced Poetry Writing

credit(s): 3

Course repeatable 2 time.

An intensive exploration of the practice of writing poetry. Specific sections may focus on subgenres including lyrical poetry, narrative poetry, and/or the long poem.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 402 Advanced Fiction Writing

credit(s): 3

Course repeatable 2 time.

An intensive exploration of the practice of writing fiction. Specific sections may focus on subgenres including the novella, flash fiction, and/or chapters within a novel.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 403 Advanced Nonfiction Writing

credit(s): 3

Course repeatable 2 time.

An intensive and challenging exploration of the practice of writing nonfiction. Specific sections may focus on the intersection of nonfiction writing and focused subject matter.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 406 AdvancedSpecial Topics in Writing credit(s): 3

Course repeatable 2 time.

An intensive and challenging study on writing practices within a focused context. Possible examples include: writing and philosophy, writing and questions of social justice, environmental writing, and/or writing and mysticism.

Fulfills the following degree requirement(s): ENGL - Non-Literature Broadeni, ENGL - Writing, Core: Writing Enriched

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 413 19th Century American Novel credit(s): 3

Major American novels of the period 1800-1900.

Fulfills the following degree requirement(s): ENGL - American Lit pre- 1914

Equivalent(s): WGST 422C

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 414 20th Century American Novel credit(s): 3

Selected major novelists of the 20th Century.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Equivalent(s): WGST 423C

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 415 Recent American Writing credit(s): 3

American prose and poetry since World War II.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 417 Transnational Latinx Literature credit(s): 3

Study of literature produced by Chicana/o/x, Latina/o/x, and Latin American authors from a transnational approach: an approach that considers the continuous cross-border connections across the Americas.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 418 American Indian Literatures credit(s): 3

This course is designed to introduce students to several important texts in the multifaceted genre of American Indian literature as well as to invite students into a critical discussion of contemporary issues centering on the relationship between American Indian literatures and contemporary sociopolitical and cultural realities and issues. We will examine the role of American Indian literature in the continual process of cultural maintenance as well as identity (re)construction. Through close reading of texts by writers from various tribes and regions, students will explore the heterogeneity of Native America and the complexities of all attempts to define or shape indigenous nationhood in the United States. We will contextualize these texts in discussions of social justice issues particular to Native America, including but not limited

to the five definitions of genocide; geographical and cultural displacements; and "third world" living conditions. We will also be engaged in dialogues about local and national American Indian cultures in cooperation with the American Indian Studies house on campus. Spring, odd numbered years.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn, NTAS - elective

Equivalent(s): NTAS 321

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 420 Beowulf: In-Laws and Outlaws **credit(s): 3**

Language and literary study of the Old English period with special emphasis on the anonymous epic poem Beowulf.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 423 Chaucer **credit(s): 3**

Chaucer's principal works in the original language.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

ENGL 433 Milton and His Contemporaries **credit(s): 3**

Poetry and prose from the 17th Century with particular emphasis on Milton.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 434 Tudor and Stuart Drama **credit(s): 3**

Principal plays 1520-1640, excluding Shakespeare.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): WGST 417

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

- ENGL 436 18th Century British Novel** **credit(s): 3**
 The British novel from 1700-1800.
Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 438 Restoration 18th Century British Drama** **credit(s): 3**
 British drama from the re-opening of the London stages in 1660 through 1800.
Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 440 Literature of the Americas** **credit(s): 3**
 A study in contemporary American literature inclusive of texts and writers from Canada, the U.S., and all of Latin America.
Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 446 19th Century British Novel** **credit(s): 3**
 The British novel from 1800-1900.
Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 450 20th Century British Novel** **credit(s): 3**
 The British novel from 1900 and 2000.
Fulfills the following degree requirement(s): ENGL - Literature post- 1914
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 450L 19th/20th Century Novel** **credit(s): 4**
 19th/20th Century novel.
- ENGL 455 Special Topics in American Literature** **credit(s): 1-3**
 Course repeatable for 9 credit.
 Topics to be determined by faculty.
Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)
- ENGL 457 Melville** **credit(s): 3**
 Herman Melville achieved brief literary celebrity in the late 1840s as the author of Typee: the “man who lived among the cannibals.” As his artistic ambition grew, his work became less popular; after the moderate successes of Typee and its sequel, Omoo, Melville’s books lost money and were poorly reviewed. Around 1860, he turned from prose to poetry, eventually withdrawing entirely from the literary marketplace. He died in 1891, an “absolutely forgotten man” (according the obit in his hometown paper, The New York Times). In the 1920s the Melville Revival rescued him from the

dustbin of history, and Moby-Dick is now widely considered among the greatest novels ever written. In this course we will consider his work in the context of the “global” nineteenth century.

Fulfills the following degree requirement(s): ENGL - American Lit pre- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 459 American Realism and Naturalism **credit(s): 3**

This course will examine the period of American literature between the Civil War and World War I. This era marked the emergence of realism and naturalism as an alternative to the romantic and sentimental books which dominated the literary market throughout the nineteenth century. Although realist and naturalist authors varied in their approaches to fiction, their writings shared many characteristics. Our reading and discussion in this class will aim to outline the commonalities of the realists and naturalists, identify their differences, and examine how the cultural milieu of the late nineteenth century gave shape to their work.

Fulfills the following degree requirement(s): ENGL - American Lit pre- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 460 Studies in Women Writers **credit(s): 3**

Course repeatable for 9 credit.

Selected authors and themes.

Equivalent(s): WGST 460

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 466 Topics in Literature **credit(s): 3**

Course repeatable for 16 credit.

Selected authors or themes.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 467 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

The course will tie in to the Florence experience and will require reading literature in English or in translation. Topic to be determined by faculty.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 471 Topics in Pre-1914 American Literature **credit(s): 1-4**

Course repeatable for 12 credit.

Fulfills the following degree requirement(s): ENGL - American Lit pre- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 472 Topics in Literature 1660 or before **credit(s): 1-4**

Course repeatable for 12 credit.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 473 Topics: British Literature 1660-1914 **credit(s): 1-4**

Course repeatable for 12 credit.

Fulfills the following degree requirement(s): ENGL - British Lit 1660-1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 474 Topics in Literature Post 1914 **credit(s): 1-4**

Course repeatable for 12 credit.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 480 Critical Theory: Literature and Culture Study **credit(s): 3**

Theories about the nature of literature and criticism.

Fulfills the following degree requirement(s): ENGL - Literature Elective, ENGL - Non-Literature Broadeni

Equivalent(s): WGST 403

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 485 Poetics **credit(s): 3**

This course will study English Language poetry from Chaucer to present. Focus on the "formal" qualities of poetry.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 490 Directed Reading **credit(s): 1-3**

Course repeatable for 12 credit.

A directed program of readings and written responses.

ENGL 492 Independent Study **credit(s): 1-3**

Course repeatable for 12 credit.

Courses which allow the individual student to engage in interdepartmental and interdisciplinary study. Credit by arrangement.

ENGL 495 Senior Seminar **credit(s): 3**

Course repeatable for 6 credit.

A focused, in-depth study of a literary/cultural topic chosen by the instructor. The course will familiarize students with the critical conversation surrounding the topic, prepare them to engage in this and similar conversations, and have them enter into this conversation through well-informed, well-argued, research-based, critical study that will constitute the written aspect of the Senior Project. Required for English Majors. Senior standing or permission of Department Chair. To be taken concurrently with ENGL 499.

Restriction(s):

Must be in the following Major(s): English

Must be the following Class(es): Senior

Corequisite(s): ENGL 499

ENGL 496 Writing Senior Project **credit(s): 0**

This course is required of students pursuing the Writing Concentration in the English major and consists of these chief components: 1) a critical/historical review contextualizing the student's

creative work in literary tradition and 2) an original creative manuscript of the student's poetry/prose/drama/non-fiction.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): 2 courses in writing

ENGL 497 Internship

credit(s): 0-6

Course repeatable for 6 credit.

Professional experience in literature- or writing-related field. Students must take the initiative to contact an agency and an English Department faculty member willing to supervise the internship. Does not count towards program electives for the major or minor.

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

ENGL 498 Directed Research

credit(s): 1-3

Course repeatable for 6 credit.

A directed program in which the individual student will engage in approved research activity and submit a scholarly paper or papers.

ENGL 499 Senior Project

credit(s): 0

Academic paper produced in Senior Seminar (ENGL 495). Required for English majors. To be taken concurrently with ENGL 495.

Restriction(s):

Must be the following Class(es): Senior

Corequisite(s): ENGL 495

Environmental Studies and Sciences

Department Chair: Jon Isacoff

Professors: B. Bancroft , G. Gordon, B. Henning, K. Henrickson, J. Isacoff, E. Johnson,

Associate Professors:

Assistant Professors: N. D'Souza, M. Mathews

Lecturer: S. Munson

The department offers two majors and one minor:

Bachelor of Arts, Environmental Studies major

Bachelor of Science, Environmental Science major

Minor in Environmental Studies

The Environmental Studies major offers students an interdisciplinary approach toward understanding the human interaction with the environment. Drawing upon courses in the natural sciences, the social sciences, and the humanities, the Environmental Studies major offers a diverse, integrated curriculum that explores the scientific, ethical, social, economic, and political aspects of our current environmental crisis.

Likewise, the Environmental Science major offers a broad scientific knowledge base and skill set integrated with coursework focused on human culture. Environmental Science integrates three fundamental scientific disciplines: biology, chemistry, and earth science. Unification of these three disciplines positions students to use scientific inquiry to understand and care for our planet.

With our proximity to state and national parks, national forests, and open space, Gonzaga is a special place to pursue environmental studies and sciences, where students can engage both their intellectual and experiential pursuits. Students in both majors have abundant opportunities for field studies and research, outdoor service learning projects, environmental internships, and leadership positions with on-campus environmental organizations. Majors are also encouraged to pursue field courses and study abroad opportunities in places like Zambia, Costa Rica, Ecuador, and Australia.

B.S. Major in Environmental Science: 63-64 credits

Lower Division (33-34 credits)

ENVS 101 Introduction to Environmental Studies	3 credits
ENVS 102 Environmental Politics and Policy	3 credits
One of the following two courses with lab	4 credits
ENVS 103 / ENVS 103L Environmental Biology and Lab	
BIOL 206 / BIOL 206L Ecology and Lab	
CHEM 101 General Chemistry	3 credits
CHEM 101L General Chemistry Lab	1 credit

ENVS 202 Applied Environmental Chemistry	3 credits
ENVS 202L Applied Environmental Chemistry Lab	1 credit
ENVS 110 Earth Systems	3 credits
ENVS 110L Earth Systems Lab	1 credit
MATH 221 Applied Stats	3 credits
One of the following two courses with Lab:	5 credits
PHYS 121/PHYS 121L Physics I and Lab	
PHYS 111/PHYS 111L General Physics I and Lab	
One of the following two courses:	
MATH 157 Calculus	4 credits
MATH 148 Survey of Calculus	3 credits
Upper Division (31 credits)	
ENVS 320 Economics of Environmental Protection	3 credits
ENVS 358 Environmental Ethics	3 credits
ENVS 341 Environmental Science Seminar	1 credit
ENVS 384 + ENVS 384L GIS and Ecology Techniques + Lab	4 credits
ENVS 497 Internship	1 credit
ENVS 499A Symposium in Environmental Studies I	1 credit
ENVS 499B Symposium in Environmental Studies II	2 credits
Technical Electives: (ENVS 400-440, 490)	12 credits
General Electives: (ENVS 300-440, 490)	3 credits
<i>*One (1) credit of ENVS 497 Internship may be counted toward the major. Students may take up to 4 credits of ENVS 497. Any remaining credits may be applied to student's total degree requirement of 128 credits.</i>	

B.A. Major in Environmental Studies: 39-41 credits

Lower Division

ENVS 101 Introduction to Environmental Studies	3 credits
ENVS 102 Environmental Politics and Policy	3 credits
One of the following two courses with lab:	4 credits
BIOL 206/BIOL 206L Ecology and Lab	
ENVS 103/ ENVS 103L Environmental Biology and Lab (Biology Double-Majors and Biology Minors ONLY take this course)	
One of the following four course options:	3-5 credits
ENVS 104/ ENVS 104L Environmental Chemistry and Lab	
ENVS 202 / ENVS 202L Applied Environmental Chemistry and Lab	
CHEM 205 Inorganic Chemistry	
CHEM 230/CHEM 230L Organic Chemistry and Lab	
ENVS 200 Case Studies in Environmental Science	4 credits

Upper Division

ENVS 320 Economics of Environmental Protection	3 credits
ENVS 358 Environmental Ethics	3 credits

ENVS 497 Internship	1 credit
ENVS 499A Symposium in Environmental Studies I	1 credit
ENVS 499B Symposium in Environmental Studies II	2 credits
ENVS Electives 300-399	12 credits

Minor in Environmental Studies: 19-21 credits

Lower Division

ENVS 101 Introduction to Environmental Studies	3 credits
One of the following five course options:	3-5 credits
ENVS 103/ENVS 103L Environmental Biology and Lab	
ENVS 104/ENVS 104L Environmental Chemistry and Lab	
BIOL 206/BIOL 206L Ecology and Lab (Biology Majors Only.)	
CHEM 205 Inorganic Chemistry	
CHEM 230/CHEM 230L Organic Chemistry and Lab;	
ENVS 200 Case Studies in Environmental Science	4 credits

Upper Division

ENVS 358 Environmental Ethics	3 credits
ENVS Electives 300-496	6 credits

Courses:

ENVS 101 Introduction to Environmental Studies credit(s): 3

An introduction to the field of Environmental Studies. The course provides an overview of the connections between science, politics, philosophy, history, and ethics regarding nature and the environment. The course urges students to think critically about the relationships between knowledge and judgment, humans and nature, justice and ethics, and natural and human history. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): Environmental Studies, Environmental Studies

ENVS 102 Environmental Politics and Policy credit(s): 3

This course examines the politics and policymaking process of environmental issues. The course focuses primarily on American national policy, but also on state and local and international/global policy. The course is designed to evoke and encourage thinking about environmental issues on these various levels. Fall and Spring.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

ENVS 103 Environmental Biology credit(s): 3

A study of the principles of ecology (including population dynamics, diversity, and energy flow) and the impact humans have on the environment. Lab is required. Fall.

Fulfills the following degree requirement(s): Science class - non-sci Majors

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Corequisite(s): ENVS 103L

ENVS 103L Environmental Biology Lab credit(s): 1

See course description for ENVS 103. Fall.

Fulfills the following degree requirement(s): Core: Science Inquiry.

Fulfills the following degree requirement(s): Core: Science Inquiry

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Corequisite(s): ENVS 103

ENVS 104 Environmental Chemistry credit(s): 3

This course covers the fundamental principles of chemistry necessary to understand the source and fate of chemical substances in the environment. Additional topics are dependent on the instructor but may include the environmental implications of energy utilization; the chemistry of the atmosphere, hydrosphere, and lithosphere; climate change; and pollution and treatment of water sources. Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Equivalent(s): CHEM 123

Restriction(s):

Must be in the following Major(s): CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Corequisite(s): ENVS 104L

ENVS 104L Environmental Chemistry Lab credit(s): 1

See course description for ENVS 104. Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Equivalent(s): CHEM 123L

Restriction(s):

Must be in the following Major(s): CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Corequisite(s): ENVS 104

ENVS 110 Earth Science credit(s): 3

This course is an introduction to the basics of earth science / geology through study of mineralogy, basic rock types, rock formation/decomposition, earth processes, geologic time scales, and scientific inquiry. The course includes an introduction to the scientific method as well as the application of the geological sciences to questions of environmental sustainability

and climate change. Questions of historical evolution of concepts of the earth and the planetary sciences are also addressed.

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science

Corequisite(s): ENVS 110L

ENVS 110L Earth Science Lab

credit(s): 1

See course description for ENVS 110L.

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science

Corequisite(s): ENVS 110

ENVS 190 Independent Study

credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by faculty.

ENVS 193 First Year Seminar

credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

ENVS 200 Case Studies in Env Science

credit(s): 4

Course repeatable for 8 credit.

This course is designed to introduce students to scientific issues and concepts related to environmental problems. The course consists of investigations of a number of specific cases of environmental impacts by humans, such as: chemical contamination of soils, air, or water; overexploitation of fisheries or other living resources; freshwater availability and quality; habitat conversion, fragmentation, and loss of biodiversity; invasive species; renewable and non-renewable energy sources; and the production and management of waste. Specific cases vary from semester to semester, and include examples of current local, regional and global relevance. Laboratory exercises allow students to investigate the scientific principles important for understanding the cases, and help students develop an appreciation for the strength and limitations of scientific knowledge in addressing environmental issues. Fall and Spring.

Restriction(s):

Must be in the following Major(s): CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Prerequisite(s): BIOL 206, minimum grade: C- or ENVS 103, minimum grade: C- or BIOL 123, minimum grade: C- or ENVS 104, minimum grade: C-

ENVS 202 Applied Environmental Chemistry **credit(s): 3**

To understand the impact of human activities on the natural environment, environmental science majors must be familiar with the chemical, physical, and biological processes that occur in soil, water, and air. These processes determine the reactions, transport, and fates of chemicals introduced into the environment by human activities. Students will apply and build on foundational concepts introduced in General Chemistry/Lab (CHEM 101/101L) to understand the chemical and physical processes that occur in natural systems. Chemical processes include acid-base reactions, oxidation-reduction reactions, and photochemical reactions. Physical processes include dissolution-precipitation and adsorption processes.

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science

Corequisite(s): ENVS 202L

Prerequisite(s): CHEM 101, minimum grade: C- and CHEM 101L, minimum grade: C-

ENVS 202L Applied Environmental Chemistry Lab **credit(s): 1**

See course description for ENVS 202.

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science

Corequisite(s): ENVS 202

Prerequisite(s): CHEM 101, minimum grade: C- and CHEM 101L, minimum grade: C- and MATH 221 (or concurrent)

ENVS 285 Special Topics **credit(s): 0-6**

Course repeatable for 12 credit.

Course content determined by instructor.

ENVS 290 Independent Study **credit(s): 1-3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

ENVS 320 Economics of Environmental Protection **credit(s): 3**

Explores the economic dimensions of environmental topics such as air and water pollution, deforestation, non-renewable resource depletion, recycling, global warming. The course studies the extent of environmental problems and alternative solutions. Spring.

Equivalent(s): ECON 324

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science, Environmental Studies, Environmental Studies

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ENVS 101

ENVS 321 Ecological Thought and Politics **credit(s): 3**

This Service Learning course focuses on the writings of seminal figures in American ecological thought, such as John Muir, Gifford Pinchot, and Aldo Leopold. Examine the history and politics of land use and wilderness planning. Field trips in partnership with the United States Forest

Service (USFS) and local environmental groups to learn first-hand about the politics of local land use. Upon sufficient demand.

Equivalent(s): POLS 317

ENVS 324 Climate Change Science and Politics credit(s): 3

This course is an in-depth examination of climate change science and politics. It examines the science behind climate models, current and predicted environmental effects of a changing climate, policies, as well as the basic definitions and concepts citizens need to understand climate change and its related political issues. In the course we will examine how scientific and political thinking on climate change has evolved.

Fulfills the following degree requirement(s): ENVS - Studies elective

Equivalent(s): POLS 378

ENVS 326 Environmental Sociology credit(s): 3

This course examines human relationships with the natural environment. It explores how power structures, social norms, ideologies and politics affect our relationship and treatment of the environment. Upon sufficient demand.

Equivalent(s): HEAL 383, SOCI 383

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

ENVS 327 Environmental Justice credit(s): 3

This course examines issues of environmental quality and social justice. It seeks to develop students' understanding of myriad causes of environmental inequality, apply those understandings to critique existing solutions to environmental inequality, as well as to propose new solutions. Service-learning will be integrated throughout as a mechanism to deepen understanding and appreciation of the course content and themes.

ENVS 328 Politics of Space and Place credit(s): 3

Everyday encounters with physical surroundings guide our orientations to the world. As we wander city streets, shopping malls, stadiums, nature preserves, sacred sites, restaurants, monuments, museums, and classrooms, we examine how we move in, and are moved by the material arenas we share. Spatial organization and built environments inform our habits of perception, determine the meaning of a particular place, accent what is worth attention and what might be overlooked, and reaffirm dominant norms and power relationships in public culture. Charts, maps, apps, and other navigational tools dictate where and how we move, and how we understand our roles within a given space. Featuring the experiential dimensions of rhetoric and communication, this course presses us to consider how material spaces and places construct everyday geographies.

Fulfills the following degree requirement(s): ENVS - Social Science

Equivalent(s): COMM 330, INST 332

Restriction(s):

Must not be the following Class(es): Freshman

ENVS 330 Parks, Forests, and Wildlife credit(s): 3

Explores the past, present, and future of public lands. Focusing primarily on national and state parks, national forests, and wildlife, this course traces the development and application of the

U.S. conservation model, both domestically and abroad. Fall.

Fulfills the following degree requirement(s): Core: Global Studies

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): ENVS 101

ENVS 332 Representing the Rainforest

credit(s): 3

The course examines how the jungle/rainforest (“selva”) space is defined in Latin America and how it is represented in literature, film, and photography. The course will not focus on the Brazilian Amazon, but instead will examine the representation of Spanish-American jungle spaces including those found in Argentina, Colombia, Peru, Ecuador, and the Central American isthmus, from the Encounter until present day.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): SPAN 332

Prerequisite(s): SPAN 320, minimum grade: C

ENVS 333 Veins of Gold

credit(s): 3

In this course, we will study the way in which Spanish America's natural resources have been imagined, described, and narrated textually throughout the history of Spanish America. Through a survey of literary and visual texts, we will explore the history of extractivism, environmentalism, and economic engagement in Spanish America. Short stories, poetry, and film will be analyzed from within the framework of Latin American critical responses to this history.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): SPAN 333

Prerequisite(s): SPAN 320, minimum grade: C

ENVS 341 Environmental Science Seminar

credit(s): 1

Introduces students to various careers in Environmental Science and to the environmental issues facing our local, regional, and global community. The format of the class includes seminars by visiting professionals and class meetings. Spring annually.

Restriction(s):

Must not be in the following Major(s): Environmental Science, Environmental Studies

Prerequisite(s): ENVS 103, minimum grade: C- and ENVS 101

ENVS 343 African Environmental History

credit(s): 3

This course explores the long-term history of Africans' dynamic interactions with their environments by interrogating how African environmental realities and Africans' conceptions of the environment shaped broader political, social and economic histories. Beginning in the precolonial period, we will trace how climatic variation, political and economic changes in the colonial period, and post-independence priorities transformed Africans' relationships with their environments.

Equivalent(s): HIST 345, INST 341

ENVS 348 Capitalism Environment Justice

credit(s): 3

This course examines how capitalism structures human relationships and impacts the nonhuman world, creating uneven social and environmental benefits and burdens. Students will draw upon a range of critical perspectives, including political economy, political ecology, feminist theory, critical race theory, indigenous and post-colonial epistemology, critical

geography, science studies, environmental justice, and other approaches. Resistance and social movement responses is emphasized.

Equivalent(s): SOCI 349, SOSJ 349

ENVS 352 Environmental Law and Policy

credit(s): 3

This course provides students with an overview of the substance and procedures relating to environmental regulation and protection in the United States. Some technical understanding of the laws governing the use of resources and the control of pollution discharges. The course addresses, among other topics: the consumption of natural resources that resulted in environmental pollution; the political and policy context in which environmental policies have been formulated, and the administrative or regulatory procedures required by statutory law or judicial decisions to deal with various environmental issues.

ENVS 353 Environmental History

credit(s): 3

In examining the dynamic relationship between humans and their environment over time, this course explores how nature affects cultural responses and how humans, in turn, have shaped the world around them. Employing a multidisciplinary approach this course draws upon ecological, historical, economic, or political analysis to illuminate the varied relationships between people and place. Spring.

Equivalent(s): HIST 365

ENVS 358 Environmental Ethics

credit(s): 3

The detailed philosophical study of humanity's understanding of its relationship to the natural environment, concentrating on historically prominent conceptions of that relationship, and the philosophical foundation of the contemporary environment movement. Fall and Spring.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Equivalent(s): PHIL 458

Restriction(s):

Must be in the following Major(s): CSCT - Environmental Studies, Environmental Science, Environmental Studies, Environmental Studies, Sustainable Business

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

ENVS 381 Ethics of Eating

credit(s): 3

An examination of ethical issues surrounding the consumption, production and transportation of food. Issues such as organic food, GMOs, vegetarianism, local and slow food movements, and hunger may be covered. Ethical issues surrounding both local and international food issues are treated. Upon sufficient demand.

Fulfills the following degree requirement(s): PHIL - Ethics or Political

Equivalent(s): PHIL 459

Prerequisite(s): PHIL 201

ENVS 384 GIS and Ecological Techniques

credit(s): 3

This course introduces students to geographic information systems (GIS) and focuses on how GIS can be used to address research and management questions in ecology. Students use existing GIS databases from resource agencies and learn how to create and analyze new GIS

databases. Field techniques vary but include mapping exercises using compass and global position systems (GPS). Spring, even years.

Equivalent(s): BIOL 344

Restriction(s):

Must be in the following Major(s): App Math - Environmental Sci, Environmental Science, Environmental Studies, Environmental Studies, Environmental Studies Conc, Sustainable Business

Corequisite(s): ENVS 384L

Prerequisite(s): ENVS 103, minimum grade: B- or BIOL 206, minimum grade: C-

ENVS 384L GIS and Ecological Techniques in Lab **credit(s): 1**

Taken concurrently with ENVS 384.

Equivalent(s): BIOL 344L

Corequisite(s): ENVS 384

Prerequisite(s): ENVS 103, minimum grade: B- or BIOL 206, minimum grade: B-

ENVS 390 Independent Study **credit(s): 1-4**

Course repeatable for 9 credit.

Topic to be determined by faculty.

ENVS 397 Special Topics: ENVS Humanities **credit(s): 3 or 4**

Course repeatable for 18 credit.

Topic to be determined by instructor.

ENVS 398 Special Topic: ENVS Social Science **credit(s): 3 or 4**

Course repeatable for 18 credit.

Topic to be determined by instructor.

ENVS 399 Special Topics: ENVS Electives **credit(s): 2-4**

Course repeatable for 18 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

ENVS 401 Population Ecology **credit(s): 3**

An in-depth look at the interactions that control the distribution and abundance of organisms at the population level. Topics such as life-history strategies, population dynamics, competition, predation, parasitism, and mutualism will be explored through the research literature, and quantitative approaches. Fall, even years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 303

Corequisite(s): ENVS 401L

Prerequisite(s): ENVS 103, minimum grade: C- and (Math 148 or MATH 157)

ENVS 401L Population Ecology Lab **credit(s): 1**

Taken concurrently with ENVS 401.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 303L

Corequisite(s): ENVS 401

Prerequisite(s): ENVS 103L, minimum grade: C- and (MATH 157 or MATH 148)

ENVS 402 Conservation Biology**credit(s): 3**

This course covers the biological concepts important for the conservation of natural populations, communities, and ecosystems. Both theoretical and empirical studies will be applied to such topics as: the genetics and ecology of small populations, consequences of habitat degradation and fragmentation, the impact of introduced species, and the ecological value of biological diversity. Students who do not have a major in the sciences are encouraged to talk to the instructor about their preparations for this course at the time of registration. Spring.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 323

Restriction(s):

Must be in the following Major(s): Environmental Engineering, Environmental Engr Concentrn, Environmental Science, Environmental Studies, Environmental Studies, Environmental Studies Conc, Natural Sciences Conc

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): BIOL 103, minimum grade: C- or BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C- or ENVS 103, minimum grade: B- or ENVS 206, minimum grade: B- or ENVS 207, minimum grade: B-

ENVS 402L Conservation Biology Lab**credit(s): 1**

for 1 credit.

This lab includes field trips. Taken concurrently with ENVS 402.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Restriction(s):

Must not be in the following Major(s): Environmental Engineering, Environmental Engr Concentrn, Environmental Science, Environmental Studies, Environmental Studies, Environmental Studies Conc, Natural Sciences Conc

Corequisite(s): ENVS 402

ENVS 403 Marine Biology**credit(s): 3**

Students will explore the biology of marine systems. Topics will include atmospheric and climate modeling, fluid dynamics, physiology, evolution of diversity, ecology, molecular biology, economics, and environmental science. Spring, even years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 403

Corequisite(s): ENVS 403L

Prerequisite(s): BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C- or ENVS 103, minimum grade: B-

ENVS 403L Marine Biology Lab**credit(s): 1**

Taken concurrently with ENVS 403, when laboratory is offered.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 403L

Corequisite(s): ENVS 403

Prerequisite(s): BIOL 206, minimum grade: C- or BIOL 207, minimum grade: C- or ENVS 103, minimum grade: B-

ENVS 404 Principles of Wildlife Management **credit(s): 3**

The ecology, theory, methods, and philosophy of wildlife management emphasizing game, nongame, and endangered species. Students gain an understanding of the roles and responsibilities of various government agencies and non-governmental organizations. Fall, even years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 357

Corequisite(s): ENVS 404L

Prerequisite(s): ENVS 103, minimum grade: C-

ENVS 404L Wildlife Management Lab **credit(s): 1**

Taken concurrently with ENVS 404. This lab includes field trips. Fall, even years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 357L

Corequisite(s): ENVS 404

Prerequisite(s): ENVS 103L, minimum grade: C- or BIOL 206L, minimum grade: C-

ENVS 405 Studies in Biodiversity **credit(s): 1**

This course is a continuation of ENVS 406L Field Studies in Biodiversity. Research projects initiated in the field in ENVS 406L will be concluded with further library research, completion of a scientific article, and presentation of the research at a local or regional meeting. Fall.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 359

Prerequisite(s): ENVS 103, minimum grade: C- and ENVS 405L

ENVS 405L Field Studies in Biodiversity **credit(s): 3**

This course uses a field experience as a backdrop to learn about evolutionary, ecological and biogeographical processes that determine the ranges and biodiversity of organisms. The course begins with class work on the Gonzaga campus and is followed by 3-4 weeks in the field, where Gonzaga faculty and local experts mentor students. Field locations vary by year and include Ecuador, Belize, Zambia, Costa Rica, or domestic locations. This course is designed for students majoring or minoring in biology. The class meets together with students enrolled in BIOL 159L for non-science majors. Students are required to enroll in ENVS 405 Studies in Biodiversity, the semester after enrolling in ENVS 405L. Summer.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 359L

Prerequisite(s): ENVS 103, minimum grade: C-

ENVS 406 Entomology **credit(s): 3**

This course introduces students to the scientific study of insects. Topics will include insect identification, diversity, behavior, anatomy, ecology, and applied entomology. Fall, odd years.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 367

Corequisite(s): ENVS 406L

Prerequisite(s): ENVS 103, minimum grade: B- and BIOL 205, minimum grade: C-

ENVS 406L Entomology Lab**credit(s): 1**

This laboratory includes field trips. Taken concurrently with ENVS 406.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 367L

Corequisite(s): ENVS 406

Prerequisite(s): ENVS 103, minimum grade: B- and BIOL 205, minimum grade: C-

ENVS 407 Community Ecology**credit(s): 3**

Community ecology seeks to explain the underlying mechanisms that create, maintain, and determine the fate of biological communities. Typically, patterns are documented by observation, and used to generate hypotheses about processes, which are tested. Integrating theory with real

world observations is fundamental to community ecology and will be a focus of this class.

Equivalent(s): BIOL 333

Prerequisite(s): ENVS 103, minimum grade: B-

ENVS 408 Freshwater Biology**credit(s): 3**

for 3 credit.1 time.

An introduction the physical, chemical, geological, and human factors which influence freshwater

organisms and their communities. After completion of the course students will be competent in application of ecological concepts to freshwater systems and to understand the impacts of human

activities on freshwater ecosystems.

Equivalent: BIOL 404

Co-requisite: ENVS 404L

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 404

Restriction(s):

Must be in the following Major(s): Environmental Science, Environmental Studies, Environmental Studies

Corequisite(s): ENVS 408L

Prerequisite(s): ENVS 103, minimum grade: C- and ENVS 103L, minimum grade: C-

ENVS 408L Freshwater Biology Lab**credit(s): 1**

for 1 credit.1 time.

An introduction the physical, chemical, geological, and human factors which influence freshwater organisms and their communities. After completion of the course students will be competent in application of ecological concepts to freshwater systems and to understand the impacts of human activities on freshwater ecosystems.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 404L

Restriction(s):

Must be in the following Major(s): Environmental Science, Environmental Studies, Environmental Studies

Corequisite(s): ENVS 408

Prerequisite(s): ENVS 103, minimum grade: C- and ENVS 103L, minimum grade: C-

ENVS 409 Ecotoxicology **credit(s): 3**

This course provides an overview of pollutants in different environments, their movement through these environments, and the effects these pollutants have on organisms at the molecular, cellular, individual, population, and ecosystem levels. Numerous case studies on specific aspects of environmental toxicology in the US will be examined throughout the course. Students will also be introduced to how toxicology is linked to environmental policies, climate change, and environmental justice.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 425

Corequisite(s): ENVS 409L

Prerequisite(s): ENVS 103 and ENVS 103L and ((ENVS 104 and ENVS 104L) or (CHEM 123 and CHEM 123L) or (CHEM 101 and CHEM 101L))

ENVS 409L Ecotoxicology Lab **credit(s): 1**

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): BIOL 425L

Restriction(s):

Must be in the following Major(s): Environmental Science, Environmental Studies, Environmental Studies

Corequisite(s): ENVS 409

Prerequisite(s): ENVS 103 and ENVS 103L and ((ENVS 104 and ENVS 104L) or (CHEM 123 and CHEM 123L) or (CHEM 101 and CHEM 101L))

ENVS 421 Environmental Engineering **credit(s): 3**

An overview of the principles of environmental engineering. Topics include material balance, environmental chemistry, risk assessment, air quality, water quality, and water and wastewater treatment. Spring.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): CENG 303

Corequisite(s): ENVS 421L

Prerequisite(s): CHEM 101

ENVS 421L Environmental Engineering Lab **credit(s): 1**

This course emphasizes fundamental environmental chemistry principles and analytical techniques used to study air and water quality and treatment process performance. The course also emphasizes statistical analysis, data interpretation, and reporting requirements associated with environmental engineering. Spring.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): CENG 303L

Corequisite(s): ENVS 421

Prerequisite(s): CHEM 101L

ENVS 422 Sustainable Systems and Design **credit(s): 3**

This course explores the characteristics of sustainable systems and how design practices may encourage sustainability. Topics covered in the course will be selected for applicability to specific regions of the world and may change each year. Basic concepts include: building thermal performance, indoor and outdoor environmental quality, passive and active energy systems, water reclamation strategies, life cycle analysis and current sustainable building rating

systems. Sustainable design concepts and methods are also applied to building design site development and infrastructure use. Fall.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): CENG 404

Restriction(s):

Must be the following Class(es): Junior, Senior

ENVS 423 Waste Management **credit(s): 3**

An overview of solid, hazardous, and industrial waste management. Topics include regulations, contaminant transport, waste sources, waste minimization, recycling, treatment and remediation technologies, landfill design and risk assessment. Spring.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): CENG 314

Restriction(s):

Must be the following Class(es): Junior, Senior

ENVS 424 Water Treatment Process **credit(s): 3**

The theory and design of water treatment processes. Develops contaminant fate and transport theory in engineered and natural systems focusing on reactor hydraulics and reaction kinetics. Granular and membrane filtration, coagulation, disinfection, ion exchange, adsorption, and gas transfer processes are designed for water and wastewater treatment systems. Additional topics include water reuse and water treatment for low-income, remote communities. Spring.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): CENG 424

Prerequisite(s): CHEM 101(and MATH 148 or MATH 157)(and PHYS 111 or PHYS 121)

ENVS 425 Stream Restoration **credit(s): 3**

Course presents fundamentals of stream restoration: Hydrologic, sediment transport, geomorphic, and ecological principles applicable to (1) assessment of stream channel condition, (2) developing approaches to stream management and restoration, and (3) evaluating project performance. Approach emphasizes the inter-related nature of hydrology, hydraulics, sediment transport, geomorphology, fisheries, and aquatic and riparian ecology. Provides students opportunities to literally get their feet wet while making various observations and measurements in field exercises to evaluate physical and ecological stream characteristics assess stream stability. Fall.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): CENG 426

Prerequisite(s): ENVS 103

ENVS 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way

that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

ENVS 490 Independent Study **credit(s): 1-4**

Course repeatable for 9 credit.

Topic to be determined by faculty.

ENVS 495 Special Topics **credit(s): 1-4**

Course repeatable for 6 credit.

Topic to be determined by instructor.

ENVS 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional experience in environmental studies-related field. Students must take the initiative to contact an agency and a faculty member willing to supervise the internship.

ENVS 498 Undergraduate Research **credit(s): 0-6**

Course repeatable for 6 credit.6 time.

This course provides the motivated student with the opportunity to conduct an independent research project under the direction of a science department faculty member (e.g., ENVS, BIOL, CHEM, PHYS).

ENVS 499A Symposium in Env Studies I **credit(s): 1**

This first portion of the capstone experience is designed to help Environmental Studies students lay the foundation for the project they will complete in 499B. Together, the courses help students integrate their experience and perspectives and apply them to a specific environmental issue. Students will be expected to produce a major written analysis of a current complex environmental issue facing the Inland Northwest. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Environmental Science, Environmental Studies

Must be the following Class(es): Senior

ENVS 499B Symposium in Env Studies II **credit(s): 2**

This capstone experience is designed to help Environmental Studies students integrate their experience and perspectives and apply them to specific environmental issue. Students will be expected to produce a major written analysis of a current complex environmental issue facing the Inland Northwest. Spring.

Restriction(s):

Must be in the following Major(s): Environmental Science, Environmental Studies

Must be the following Class(es): Senior

Prerequisite(s): ENVS 499A, minimum grade: D (or concurrent)

Film Studies

Director: Matthew Bolton

The program offers one minor:

Minor in Film Studies

The Film Studies program is an interdisciplinary academic home for the study of film and media analysis. In this program students learn about the formal elements of cinema and other visual media, its history as a medium, its connection to national cultures and values, and its expressions of human experience. Students study film and media analysis through a variety of theoretical frameworks, considering the ways in which different disciplines approach the study of film and media.

Film Studies Minor: 21 credits

Film and Form - Take one of the following four courses:	3 credits
FILM 221 The Summer Blockbuster	
FILM 229 Studies in Film Form	
FILM 320 Media Aesthetics	
FILM 329 Topics in Film Form	
Film and History - Take one of the following six courses:	3 credits
FILM 230 Hollywood Cinema	
FILM 231 African-American Cinema	
FILM 239 Studies in Film History	
FILM 331 New York City on Film	
FILM 332 The American New Wave	
FILM 339 Topics in Film history	
<i>Upper Division Requirement</i>	
FILM Electives*	12 credits
FILM 499 Senior Capstone	3 credits

* FILM electives can be identified on Zagweb using the attribute searched in the advanced look up features for registration.

Courses:**FILM 160 Acting I credit(s): 3**

An introduction to the techniques of dramatic expression utilizing the body, voice, and imagination. Structured play exercise helps the beginner to overcome physical/vocal inhibitions, and develop a sense of trust and teamwork within the group. Scene work is approached using beats, intentions, scores of physical actions, obstacles, and subtext. The class concludes with a recital to provide practical experience in rehearsal and performance. Fall and Spring.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture, Core: Fine Arts and Design

Equivalent(s): THEA 111

FILM 193 First Year Seminar credit 0

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

FILM 202 Film and History credit(s): 3

Course repeatable for 9 credit.3 time.

This course serves as an introduction to the history of film as a medium, ranging from its origins to the current moment. Students taking this course will learn how to situate a film in its historical and cultural contexts and will use these contexts to make analytical claims about film and history.

Fulfills the following degree requirement(s): FILM - Film & History

FILM 221 The Summer Blockbuster credit(s): 3

Born in 1975 with the release of *Jaws*, the summer blockbuster is one of the defining cinematic genres of our cultural moment, shaping what movies look like, how they get made, what a success or flop is, and how we understand the very nature of the medium. This course examines the six aspects of film form—narrative, mise-en-scène, cinematography, editing, sound, and acting—to understand better how summer blockbusters communicate, what makes for a successful blockbuster film, and how the genre of blockbuster functions.

Fulfills the following degree requirement(s): FILM - Film & Form, Core: Literature

FILM 229 Studies in Film Form credit(s): 3

Course repeatable for 9 credit.

This course serves as an introduction to elements of film form and grammar, including narrative, mise-en-scène, cinematography, editing, sound, and acting. Students taking this course will learn how to describe a film's formal qualities and will use these descriptions to make analytical claims about film.

Fulfills the following degree requirement(s): FILM - Film & Form

FILM 230 Hollywood Cinema credit(s): 3

Simultaneously an industry, an entertainment, and an art form, Hollywood cinema is a system that has produced the predominant mass culture of the last 100 years, shaping the way that Americans (and the world) think about American history, culture, and identity. This class examines Hollywood as a business, as an aesthetic, and as a cultural force, considering in particular the following questions: What are the formal and ideological markers of the Hollywood film? How have the poetics and politics of the Hollywood film developed over time? Why has the Hollywood film endured over time? What voices have been neglected by Hollywood history? What does Hollywood history have to teach us about our own moment? In

exploring these questions, we will draw on film studies, American studies, cognitive science, economics, cultural theory, history, critical race theory, feminist theory, aesthetics, and ethics to develop a comprehensive understanding of what Hollywood has meant and what it means today.

Fulfills the following degree requirement(s): FILM - Film & History, Core: Literature

FILM 231 African-American Cinema credit(s): 3

W. E. B. Du Bois famously described the African-American experience as a kind of “double-consciousness, [a] sense of always looking at one’s self through the eyes of others,” torn between two identities: “an American, a Negro.” This course reflects this same duality, existing in tension between two simultaneous classes. The first half of the course examines the way that American popular cinema has represented the lives and humanity of black citizens—the “looking at one’s self through the eyes of others” that Du Bois refers to. This portion of the course will consider how the industry of Hollywood—a largely white, straight, and male institution—depicted and shaped the lives of black Americans for the movie-going public. The second half of the course examines how black filmmakers from the earliest moments of American filmmaking to our own moment have used cinema as a form of self-expression and meaning-making. This portion of the course considers black filmmaking both as a response to historical representations of African-Americans and as a cinematic history separate from a relationship to white America. In combining these two separate intellectual impulses, this course aims to instantiate Du Bois’s “double-consciousness” and do justice both to the need to examine Hollywood cinema’s history of racial injustice and to the desire to explore the rich tableau of black filmmaking in the United States.

Fulfills the following degree requirement(s): FILM - Film & History, Core: Social Justice, Core: Literature

FILM 239 Studies in Film History credit(s): 3

Course repeatable for 9 credit.

This course serves as an introduction to the history of film as a medium, ranging from its origins to the current moment. Students taking this course will learn how to situate a film in its historical and cultural contexts and will use these contexts to make analytical claims about film and history.

Fulfills the following degree requirement(s): FILM - Film & History

FILM 240 World Cinema credit(s): 3

This course takes the concept of the projected image as a machine for reflection and metamorphosis as its starting point, considering the ways in which film both reflects ourselves and our culture back at us while also influencing and changing the very things it reflects. In particular, this course examines the ways in which world cinema—defined as cinema not in English—creates meaning, examining the movement, the auteur, and the society as particular loci of meaning. This course examines films from the beginnings of cinema to movies released quite recently, all in the service of considering what the cinema is, what it has to say about culture and society, and what we should think, say, do, and feel as viewers looking into our own distorted reflections.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, Core: Literature, Core: Global Studies

FILM 249 Studies: Film, National Identity **credit(s): 3**

Course repeatable for 9 credit.

This course examines the connection between film and national identity, studying at least one non-US cinema in order to explore the relationship between film art and national culture. Students taking this course will learn how to understand a film in its national, political, and aesthetic context, using these contexts to make analytical claims about the relationship between film and nation.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity

FILM 250 Gender and Sex in Horror Film **credit(s): 3**

This course examines the ways a genre of popular film—the horror film—both reflects and alters the way we think about a specific facet of ourselves and our culture—our assumptions, beliefs, and values about gender and sexuality. Content includes films from the United States and from world cinema, from the beginnings of film to the current moment, all in the service of considering what the horror film is, what it has to say about gender and sexuality, and what we should think, say, do, and feel as viewers looking into our own distorted reflections.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective, Core: Social Justice, Core: Literature

FILM 259 Studies in Film and Genre **credit(s): 3**

Course repeatable for 9 credit.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective

FILM 260 Design Process **credit(s): 3**

Fundamentals of the process of designing for the theatre - developing the design from the initial script study through the collaborative process in design meetings. Learning how to “see” and developing points of view and approaches are studied. The course also covers the business of design, working in regional theatres and other professional venues. Fall, even years.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture, Core: Fine Arts and Design

Equivalent(s): THEA 235

FILM 261 Directing I **credit(s): 3**

The fundamental techniques of play analysis, actor communication, and composition are introduced and applied to model plays. Organizational, leadership, and conceptual skills are developed as students audition, cast, and rehearse chosen scenes from the modern realistic repertoire for performance. Fall.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): THEA 253

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): THEA 111 or FILM 160

FILM 262 Introduction to Filmmaking **credit(s): 3**

An experiential, hands-on course that introduces students to the fundamental aspects of digital filmmaking. Students will learn basic camera operation, audio recording, and video editing

while also examining the creative and ethical considerations associated with the craft of filmmaking. Spring

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): BRCO 272, VART 272

Prerequisite(s): VART 170 or VART 112 or JOUR 270

FILM 269 Studies: Production Cultures

credit(s): 3

Course repeatable for 9 credit.

This course examines some aspect of film production (ranging from screen writing to costuming, directing to acting, etc.) with the goal of understanding how the process of film production shapes film meaning. Students taking this course will learn how to use the circumstances of production to explicate and analyze film and other media objects.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

FILM 279 Studies: Film-Human Experience

credit(s): 3

Course repeatable for 9 credit.

This course examines film as a means of expressing some aspect of human experiences, ranging from the political to the ethical, the philosophical to the spiritual, the cultural to the personal. Students taking this course will learn how filmic language expresses ideas, emotions, experiences, and beliefs, using this knowledge to understand both particular films and broader questions of spirituality, philosophy, politics, culture, and/or social justice.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective

FILM 301 Film and National Identity

credit(s): 3

Course repeatable for 9 credit.

This course examines the connection between film and national identity, studying at least one non-US cinema in order to explore the relationship between film art and national culture. Students taking this course will learn how to understand a film in its national, political, and aesthetic context, using these contexts to make analytical claims about the relationship between film and nation.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity

FILM 302 Film and Genre

credit(s): 3

Course repeatable for 9 credit.3 time.

Course Description: This course examines the relationship between film and genre, either in the traditional sense of story-type (horror, musical, etc.) or in the sense of a particular filmmaker (Hitchcock, Kurosawa, etc.) or filmmaking movement (the French New Wave, New Hollywood, etc.). Students taking this course will learn how to situate specific films within broader generic contexts and will learn how these broader contexts can operate as an expression and/ or critique of cultural values and ideologies.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective

FILM 303 Film and Production Cultures

credit(s): 3 or 4

Course repeatable for 9 credit.

This course examines some aspect off film production (ranging from screen writing to costuming, directing to acting, etc.) with the goal of understanding how the process of film

production shapes film meaning. Students taking this course will learn how to use the circumstances of production to explicate and analyze film and other media objects.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

FILM 304 Film and Human Experience

credit(s): 3

Course repeatable for 9 credit.

This course examines film as a means of expressing some aspect of human experiences, ranging from the political to the ethical, the philosophical to the spiritual, the cultural to the personal. Students taking this course will learn how filmic language expresses ideas, emotions, experiences, and beliefs, using this knowledge to understand both particular films and broader questions of spirituality, philosophy, politics, culture, and/or social justice.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective

FILM 320 Media Aesthetics

credit(s): 3

Images and sounds saturate our daily lives and while we often pay attention to content, we may neglect the visual and aural dimensions of these media. As citizens and consumers, we need to develop critical visual and aural interpretive frameworks to make sense of media. This course invites students to sharpen their analytical tools to attend to the sights and sounds that animate everyday life. This course examines media aesthetics through mise-en-scene, camera and point of view, editing techniques, visual style, and sound. From still to moving images, from print to online, students will conduct detailed aesthetic analyses of movies, television, radio, advertisements, podcasts, art, photography, websites, gifs, memes, and other forms of digital media. Additional topics may include industry, genre, power, visual culture theory, and identity. Fall.

Fulfills the following degree requirement(s): FILM - Film & Form

Equivalent(s): COMM 360

Prerequisite(s): COMM 210, minimum grade: C and COMM 275, minimum grade: C

FILM 329 Topics in Film Form

credit(s): 3

Course repeatable for 9 credit.

This course serves as a continued study of elements of film form and grammar, including narrative, mise-en-scene, cinematography, editing, sound, and acting. Students taking this course will learn how to describe a film's formal qualities and will use these descriptions to make analytical claims about film.

Fulfills the following degree requirement(s): FILM - Film & Form

FILM 331 New York City on Film

credit(s): 3

This course embraces the concept of "text as city," using film to read the urban landscape and to understand history, geography, and culture, with a particular focus on films from the "long Seventies," 1969 – 1981, that were filmed in and take place in New York City. Using these narrow chronological and geographical boundaries, this course explores ways of reading this singular moment in history, interrogating local demographics and neighborhoods, national culture, and the visions of a variety of filmmakers to understand what is important and distinct about New York City, about the 70s, and about film. In particular, these movies document the city's racial and ethnic populations, emergent queerness, elite enclaves and decaying districts, and the vicious eruption of neoliberalism. In considering these films, this course also studies the

reciprocal relationship between film and culture, as well as a variety of parallels between the 1970s and our own moment.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, FILM - Film & History

FILM 332 The American New Wave credit(s): 3

The word “interregnum” refers to an interval of time between the reigns of two monarchs, a liminal moment between one ruling system and another when possibilities flourish, and this political term gives us a perfect metaphor for the moment of film history—sometimes called “New Hollywood” or “the American New Wave”—students will study in this course. In the mid-sixties, the studio system of Hollywood collapsed, and in the late seventies, a new blockbuster era emerged, an era we still live in today. What will interest students in this course is what happens between the fall of one system and the rise of another, when there were no rules and American filmmakers were more free to create than they ever had been before or since.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, FILM - Film & History

FILM 339 Topics in Film History credit(s): 3

This course serves as a continued study of the history of film as a medium, ranging from its origins to the current moment. Students taking this course will learn how to situate a film in its historical and cultural contexts and will use these contexts to make analytical claims about film and history.

Fulfills the following degree requirement(s): FILM - Film & History

FILM 340 Latin American Cinema credit(s): 3

This course will focus on a series of representative Latin American films in order to explore issues of national formation and cultural identity. Emphasis will be given to the social, political, and economic factors which affect the production and reception of these films.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, HIST - Non-History elect, SPAN - Culture

Equivalent(s): INST 404, SPAN 351

Prerequisite(s): SPAN 320, minimum grade: C

FILM 341 Spanish Cinema credit(s): 3

This course provides an introduction to the history of Spanish cinema through the study of representative films of different historical periods (Francoist and/ or democratic period). Particular attention will be given to the historical, social, and cultural context of the production and reception of those movies, as well as to questions of authorship/genre, gender/sexuality, and national/cultural identity.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, SPAN - Culture

Equivalent(s): INST 415, SPAN 352

Prerequisite(s): SPAN 320, minimum grade: C

FILM 342 Contemporary French Cinema credit(s): 3

A study of French cinema as it has evolved in the last two decades. The films viewed will be used as a means to encourage reflection on the history, ideas and values that have gone into the making of modern France. The course is offered in English and French in separate sections.

For students who take the English section of the course through the INST cross-listing, there is no French prerequisite. Spring.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, INST - Europe Region content

Equivalent(s): FREN 331

Prerequisite(s): FREN 202-399, 1 course

FILM 343 African History through Film **credit(s): 3**

This course explores African history by examining the roles that Africans have played historically as creators, audiences, and subjects of films. Using both film studies and African studies concepts, the course interrogates African film as both artifacts and interpretations of the past.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, HIST - Non-West/Dev Area, INST - Africa Region content

Equivalent(s): HIST 342

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

FILM 344 Comparative European Politics **credit(s): 3**

Survey of the parties, institutions, political processes, issues and policies of the major western European industrialized nations. Special focus on England, France, and Germany, but coverage extends to the other European democracies as well. Fall, even years.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, INST - Europe Region content

Equivalent(s): INST 395, POLS 354

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

FILM 349 Topics: Film, National Identity **credit(s): 3**

Course repeatable for 9 credit.

This course examines the connection between film and national identity, offering advanced study in at least one non-US cinema in order to explore the relationship between film art and national culture. Students taking this course will learn how to understand a film in its national, political, and aesthetic context, using these contexts to make analytical claims about the relationship between film and nation.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity

FILM 350 Westerns and American Myth(s) **credit(s): 3**

The goal of this course is to examine the Western film genre in depth, exploring its historical development, American and international instantiations, the structural, sociopolitical, and aesthetic features that define it, and the contemporary state of the genre. This course will engage with the breadth and depth of the genre, particularly from historicist and structuralist perspectives, and explore the relationships between the Western film and the historical, cultural, social, ethical, and material contexts from which it emerges.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, FILM - Film & Genre, FILM - Film Elective

FILM 351 The Cinema of Akira Kurosawa **credit(s): 3**

This course explores the life and career of Akira Kurosawa, one of the greatest filmmakers to ever live. Kurosawa's films return again and again to a central question: "why can't people be happier together?" In examining this question—one that touches on fundamental questions of ethics, history, and society—Kurosawa will take us to burning medieval castles, modern Shakespeare adaptations, samurai battles, the atomic aftermath of Hiroshima and Nagasaki, and even his own dreams. This course will consider how Kurosawa's films offer an ethic and a philosophy for life in the modern world, while at the same time offering a template for films like *A Fistful of Dollars*, *A Bug's Life*, and *Star Wars* ...and ultimately, contemporary cinema itself.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn, FILM - Film & Genre, FILM - Film Elective, Core: Global Studies

FILM 352 The Cinema of Alfred Hitchcock **credit(s): 3**

This class examines the life and works of Alfred Hitchcock, not only one of the most important filmmakers to ever live, but perhaps the most important image-maker of the 20th century. The director of 53 feature films—including *Vertigo*, named as the best film ever made by the BFI in 2012—Hitchcock worked in the early beginnings of silent movies, made films in Germany, England, and the United States, made careers (and ended them), revolutionized cinematic technique and storytelling, and changed the way we think about the movies. This course examines Hitchcock's stories, filmmaking craft, and cinematic philosophy, exploring how these reflect both their own times and the obsessions, impulses, and genius of the man behind the camera.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, FILM - Film & Genre, FILM - Film Elective

FILM 353 Breaking Bad **credit(s): 3**

By any measure, *Breaking Bad*, Vince Gilligan's "story about a man who transforms himself from Mr. Chips to Scarface," is one of the most successful television series of all time. It was one of the most-watched cable shows in the United States, was recognized by the Guinness World Records in 2013 as the highest rated show of all time, and was nominated for sixteen Emmy awards (among many other accolades). In addition to its compelling characters and propulsive plot, part of *Breaking Bad*'s popularity can be attributed to its aesthetic, thematic, and ethical complexity. Indeed, *Breaking Bad* draws on modes of Greek and Shakespearean tragedy, asks the same questions that appear in *Faust* and *Paradise Lost*, and emplots the philosophical arguments of Machiavelli and Nietzsche. This course will examine *Breaking Bad* in detail, considering what the series means within the material and formal contexts of television, early 21st century American economy and culture, and broader ethical, political, philosophical, and artistic discourses.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, FILM - Film & Genre, FILM - Film Elective

FILM 359 Topics in Film and Genre **credit(s): 3**

Course repeatable for 9 credit.

This course offers advanced study in the relationship between film and genre, either in the traditional sense of story-type (horror, musical, etc.) or in the sense of a particular filmmaker (Hitchcock, Kurosawa, etc.) or filmmaking movement (the French New Wave, New Hollywood,

etc.). Students taking this course will learn how to situate specific films within broader generic contexts and will learn how these broader contexts can operate as an expression and/ or critique of cultural values and ideologies.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective

FILM 360 Directing II **credit(s): 3**

With a foundation in conceptualization, play analysis, actor communication, and design, student directors will create a vision for a short play. Student directors cast their shows and collaborate with a design team to realize the production in a public performance. Emphasis is placed on building conceptually rich, unified productions and the development of an individual creative voice. Spring.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): THEA 354

Prerequisite(s): THEA 253

FILM 361 Acting for the Camera **credit(s): 3**

With experience of basic acting techniques in hand, the student actor works in front of the camera to meet the challenges of electronic media. Simplicity of presentation, performance of the authentic person, and active listening are key skills. Work is in a variety of forms, from feature films to public service announcements. The class concludes with a public showing of student work. Periodic offering.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): THEA 316

Prerequisite(s): THEA 111

FILM 369 Topics: Production Cultures **credit(s): 3**

Course repeatable for 9 credit.

This course offers advanced study of some aspect of film production (ranging from screen writing to costuming, directing to acting, etc.) with the goal of understanding how the process of film production shapes film meaning. Students taking this course will learn how to use the circumstances of production to explicate and analyze film and other media objects.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

FILM 370 Bible and Film **credit(s): 3**

Explore different ways in which religion (and theology) and film can be placed into mutually critical conversation. Specific attention given to constructing mutually enriching dialogues between recent films (1999-present) and specific biblical texts. How can biblical texts provide new lenses for the viewing of films? In what ways can films enrich the understanding and interpretation of biblical texts? Offered every semester.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Sacred Texts, Core: Christian or Catholic

Equivalent(s): RELI 302

FILM 371 Asian Religions in Film **credit(s): 3**

Explore Asian religions in contemporary Asian, European, and North American cultures through film. By focusing on how Asian religious themes are treated in each film, we learn to identify

longstanding Asian religious themes in contemporary films. We also investigate how Asian religions are employed in films to address contemporary issues. Offered every year.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Reli, Culture & Society, Core: World or Comparative Rel

Equivalent(s): RELI 364

FILM 372 Religion and Film

credit(s): 3

This course explores different ways in which religion (and theology) and film can be placed into mutually critical conversation of central concern are the diverse responses by theologians (Jewish and Christian) and films to trauma such as the Holocaust. Offered every year.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 365

FILM 379 Topics: Film-Human Experience

credit(s): 3

Course repeatable for 9 credit.

This course offers advanced study film as a means of expressing some aspect of human experiences, ranging from the political to the ethical, the philosophical to the spiritual, the cultural to the personal. Students taking this course will learn how filmic language expresses express ideas, emotions, experiences, and beliefs, using this knowledge to understand both particular films and broader questions of spirituality, philosophy, politics, culture, and/or social justice.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective

FILM 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): FILM - Film Elective, Core: Core Integration Seminar

FILM 450 Ancient Rome in Popular Culture

credit(s): 3

A course offering the student an opportunity to study aspects of classical civilization, with a specialized focus on aspects of the Roman world and its culture.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Rome course, FILM - Film & Genre, FILM - Film Elective

Equivalent(s): CLAS 420

FILM 451 Documentary History and Analysis

credit(s): 3

The course explores documentary film as both a popular art form and as an instrument for constructing social knowledge. From early cinematic experiments to contemporary award winners, students will critically review the evolution of non-fiction filmmaking while analyzing

the techniques that documentary filmmakers use to craft their documentaries. The larger ethical and societal impacts of documentary film will also be explored. Spring.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective, Core: Fine Arts and Design

Equivalent(s): JOUR 374

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): INMD 101

FILM 460 Documentary Filmmaking

credit(s): 3

Documentary filmmaking provides an environment in which students experiment with the combination of digital film aesthetics and documentary storytelling to produce an original short non-fiction work. The course includes examination of ethical issues in documentaries, the use of animation and interactivity in film and the role of documentary work in different cultures. Lab fee. Spring.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): JOUR 470

Prerequisite(s): VART 170 or BRCO 303

FILM 461 Creative Filmmaking

credit(s): 3

An exploration of moving images and digital video as they relate to documentary films and art. Students learn how artists employ digital video and moving images in their artistic work. They also learn how to apply fundamental visual strategies of digital media and technological tools, including media editing software such as Adobe Premiere Pro and After Effects, to the creation and editing of video. Lab fee. Fall.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): BRCO 472, INMD 410, VART 472

Prerequisite(s): INMD 101 and VART 170

FILM 470 Philosophy in Film

credit(s): 3

Many current films raise first-order philosophical questions or issues, though few films are particularly good at solving those same problems or resolving the conflict underlying the issues. This course seeks to explore many contemporary films (none older than Blade Runner) and the philosophical issues they raise, both by their explicit content and by their implicit content. Metaphysical issues about the mind and body relationship, the nature and extent of free will, and the nature of personal identity will be included. Some epistemological issues having to do with how well we can expect to have access to reality, and what might be among the impediments to the access will also be included. The course generally avoids treating ethical or moral issues, but also takes an interest in the use of the emotions in films, the treatment of violence and human sexuality in films and the nature of comedy in films. Some attention will also be given to film techniques, especially from the point of view of the audience.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, Core: Core Integration Seminar

Equivalent(s): PHIL 485

FILM 497 Film Internship

credit(s): 1-4

FILM 498 Independent Study

credit(s): 1-4

Course repeatable for 9 credit.

FILM 499 Film Capstone

credit(s): 3

Course repeatable for 9 credit.

This capstone course synthesizes student learning through the film studies program by examining some aspect of film and media studies (determined by the instructor) through multiple disciplinary lenses. Students taking this course will learn about the topic in depth, apply a variety of disciplinary and theoretical frameworks to the topic, and conduct student-driven research about a topic within film and media studies.

Health Equity

Director: Andrea Bertotti Metoyer

The program offers one minor:

Minor in Health Equity

The minor in Health Equity employs a multidisciplinary academic approach to explore social determinants of health, healthcare inequities, and the social construction of scientific knowledge. Attracting students who plan to enter health science careers, as well as those primarily interested in social justice/social change, the Health Equity minor will provide a strong foundation for understanding how cultural and structural forces impact the health and health care of communities, influence individuals' choices and relationship to information, and shape the processes and implications of health science. With a heavy emphasis on social sciences, humanities, and experiential learning, the Health Equity minor cultivates an understanding of the inextricable relationship between human health, social justice, and ethics in research and treatment.

Minor in Health Equity: 18 Credits

REQUIRED:

One of the following two Intro to Social Structures & Inequalities courses: 3 credits

SOCI 101 Introduction to Sociology

SOSJ 101 Introduction to Solidarity and Social Justice

HEAL 201/SOCI 283/SOSJ 221 Sociology of Health and Medicine 3 credits

One of a combination of the following Experiential Learning courses: 3 credits

HEAL 497 Internship (1-3 credits) *

HEAL 475 Community Organizing for Health Equity (1 credit)

SOSJ 499 Social Justice Praxis (HEAL/SOSJ double minors) (3 credits)

Electives: 9 credits

BIOL 104L/HEAL 104L Indigenous Science Lab

HEAL 105 Disability in Literature

HEAL 193 Religion and Medical Science

HEAL 195 Special Topics

HEAL 196 Special Topics

HEAL 295 Special Topics

HEAL 296 Special Topics

HEAL 304 Feminism and Science

HEAL 318 Medical Spanish and Cultural Competency

HEAL 332 Urban and Community Sociology

HEAL 333 Health Economics

HEAL 343 Sociology of Reproduction

HEAL 376 Christian Sexual Ethics
HEAL 383 Environmental Sociology
HEAL 395 Special Topics
HEAL 396 Special Topics
HEAL 455 Health Care Ethics
HEAL 459 Ethics of Eating
HEAL 495 Special Topics
HEAL 496 Special Topics

*Student will locate internship opportunities independently, with the assistance
Career & Professional Development/Health Professions Pathways Program

Courses:

HEAL 104 Indigenous Science **credit(s): 2**

This lecture and laboratory course content will be determined by the instructor to meet the learning objectives of the Scientific Inquiry requirement of the University Core. Fall and Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): HEAL 104L

HEAL 104L Indigenous Science Lab **credit(s): 1**

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): HEAL 104

HEAL 193 First Year Seminar Religion and Medicine **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): HEAL - Electives, Core: First Year Seminar

HEAL 195 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

HEAL 196 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

HEAL 201 Sociology of Health and Medicine **credit(s): 3**

This course examines the social context of health, illness and health care. Particular attention will be paid to the effects of culture and social inequality on health, the interaction of various health care professionals, and political debates about the health care system.

Equivalent(s): SOCI 283, SOSJ 221, WGST 207

HEAL 295 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

HEAL 296 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

HEAL 304 Feminism and Science **credit(s): 3**

This course is an introduction to the interdisciplinary field of Feminist Science and Technology Studies. Students will learn what the field of FSTS has to say about various social justice issues, such as equity for women in science, the history of the science of human difference, how human values shape science in action for better or for worse, and what feminism has to offer the scientific endeavor.

Fulfills the following degree requirement(s): HEAL - Electives, Women's & Gender Studies

Prerequisite(s): WGST 100-299, 1 course

HEAL 318 Medical Spanish and Cultural Competency **credit(s): 3**

This course is designed for students planning to work in the health care field and who want to acquire more skills in medical Spanish. We will develop new critical perspectives on health care for Hispanics in the US. Specifically, we will develop medical language skills and cultural competency for health care situations.

Fulfills the following degree requirement(s): HEAL - Electives, SPAN - Culture

Equivalent(s): SPAN 318

Prerequisite(s): SPAN 301, minimum grade: C

HEAL 332 Urban and Community Sociology **credit(s): 3**

This course investigates the way that urbanization- the increasing density and diversity of human settlements - creates challenges to and opportunities for the flourishing of communal life. We study the political economy of urban land use, the formation of segregated ghettos and ethnic enclaves, and gentrification. We also examine the potential for public spaces, community centers, parks and libraries to provide vital sources of social support and communal life. Spring, odd years.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): SOCI 332

HEAL 333 Health Economics **credit(s): 3**

This course uses microeconomic theory to explain aspects of the health care market. We discuss what makes health care distinctive as an economic good, demand for health and health care, insurance, and economic aspects of physicians, nurses, hospitals, pharmaceuticals, public health, and different types of health care systems. We will look at cost-effectiveness and costbenefit analysis as tools to be used in health care.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): ECON 333

Prerequisite(s): ECON 201

HEAL 343 Sociology of Reproduction **credit(s): 3**

This course investigates the history and sociology of reproduction primarily within the US context. It examines how reproduction is simultaneously biological and social, focusing on a wide range of topics, including intention, pregnancy, abortion, contraception, infertility, and breastfeeding. It distinguishes reproductive rights from reproductive justice and pays particular

attention to how social institutions and intersecting inequalities influence reproductive practices and policies. Every other Spring.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): SOCI 343

Prerequisite(s): HEAL 201 or SOSJ 221 or WGST 207

HEAL 364 Drugs and Society

credit(s): 3

This course will examine the effect that drugs, both legal and illegal, have on the legal justice system. Critical analysis, select lectures, in-class discussion, and writing will be the formats used to address issues such as the effect of the "war on drugs," the relationship between drugs and violence, how drugs relate to law enforcement, sentencing, and corrections within the U.S. legal justice system, and the impact of drugs on individual users.

Equivalent(s): CRIM 364, SOCI 364

HEAL 376 Christian Sexual Ethics

credit(s): 3

This course explores Christian perspectives on the ethical dimensions of human sexuality and issues of gender.

Fulfills the following degree requirement(s): HEAL - Electives, RELI - Religious Ethics, Core: Ethics

Equivalent(s): RELI 379

HEAL 383 Environmental Sociology

credit(s): 3

This course examines humans' relationship with the natural environment. It explores how power structures, social norms, ideologies and politics affect our understanding and treatment of the environment. It also examines how relationships among social groups are played out through the process of defining nature, and through the control of animals, land, water, air, food and other natural resources.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): ENVS 326, SOCI 383

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HEAL 395 Special Topics

credit(s): 1-3

Course repeatable for 12 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 396 Special Topics

credit(s): 1-3

Course repeatable for 12 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 455 Health Care Ethics

credit(s): 3

This course will survey a range of ethical issues pertaining to the health care professions. After examining some introductory material concerning philosophical ethics, we will proceed into three main sections of material. Section 1 will examine professional obligations, the doctorpatient relationship, and the role of nurses. Core issues here include paternalism and patient autonomy, beneficence and medical altruism, informed consent, and confidentiality. Section 2 will examine end of life care and will include discussion of euthanasia and physician-assisted suicide, surrogate decision-making, medical futility, and advance directives. Section 3

will focus on ethical issues concerning human reproduction, including abortion, artificial procreation, surrogacy, and genetic manipulation.

Fulfills the following degree requirement(s): HEAL - Electives, Leadership elective, PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 455

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

HEAL 459 Ethics of Eating **credit(s): 3**

In this course we will cover a variety of different ethical issues concerning food. We will look at the consumption, production and transportation of food as well as organic food, GMOs, vegetarianism and veganism. We will also consider several different food movements, including the local and slow food movements as well as the food justice and food sovereignty movements. We will also include in our study reflection on our own food choices and some experiential learning.

Fulfills the following degree requirement(s): HEAL - Electives, PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 459

Prerequisite(s): PHIL 201

HEAL 475 Organizing for Health Equity **credit(s): 1**

Course repeatable for 2 credit.

The Community Organizing for Health Equity course facilitates learning of community organizing skills through participatory exercises, discussion, and short lectures. The course provides a foundation from which to understand the world through a different lens needed to work on “upstream” issues. The course will equip student leaders with the tools they need to organize themselves and others to more effectively address the social justice issues that matter most to them.

Fulfills the following degree requirement(s): HEAL - Experiential, SOSJ - Block D

Equivalent(s): SOSJ 475

HEAL 491 Independent Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 492 Independent Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 495 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 496 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): HEAL - Electives

HEAL 497 Health Equity Internship

credit(s): 1-3

Course repeatable for 6 credit.

Students will locate internship opportunities independently, with the assistance of Career & Professional Development/Health Professions Pathways Program. The HEAL director or any preferred faculty member may supervise students enrolling in HEAL 497. Students may crosslist HEAL 497 with the 497- internship course in their major department, with approval of HEAL Director. Students will submit a final reflection paper.

Fulfills the following degree requirement(s): HEAL - Experiential

History

Chairperson: Ray Rast

Professors: L. Arnold, E. Cunningham, G. DeAragon (Emerita), R. Donnelly, E. Downey (Emerita), A. Goldman, D. González (Emerita), K. O'Connor, A. Ostendorf, J.R. Stackelberg (Emeritus), A. Via, S.J. (Emeritus)

Associate Professors: S. Balzarini (Emeritus), K. Chambers, C. De Barra, T. Nitz (Emeritus), R. Rast, V. Schlimgen, J. Weiskopf

Assistant Professors: J. Vignone

Lecturer: J. Binczewski

The department offers one major and four minors:

Bachelor of Arts, History major

Minor in History

Minor in Asian History

Minor in Latin American History

Minor in History of Race & Ethnic Communities

The Department of History offers a variety of courses that enable students to fulfill University Core requirements as well as to obtain a Bachelor of Arts with either a major or a minor in History. The goals of the department curriculum are to engender an informed, critical, and articulate sense of the past, an appreciation for the diversity of human experience, and an awareness of the role of tradition in shaping the present. The major develops a variety of practical research and communication skills and provides a foundation for graduate work, the study of law, public service, teaching, archival and library sciences, public history, and many careers in business and other professions. The department sponsors a chapter of Phi Alpha Theta, the national History honor society, and coordinates internships with community partners and with Gonzaga University Archives and Special Collections.

Majors are required to complete HIST 200 (Historical Foundations), a course that provides a preliminary introduction to the discipline of History, followed by HIST 300 (Historical Methods), which provides an in-depth discussion of the discipline of History and is normally taken as the student begins the upper division courses, and HIST 400 (Senior Thesis/Seminar), the research capstone to the major. The department offers courses on a wide variety of places, people, and eras at both the upper and lower division level. Majors who wish to obtain teacher certification are urged to confer with the School of Education as well as their departmental adviser.

B.A. Major in History: 33 Credits

Lower Division

HIST 100-level electives* 6-9 credits

*Must include 3 credits of US History content from:

HIST 103 United States History I

HIST 104 United States History II

HIST 106 Asian & Pacific Islander American History

HIST 108 Introduction to Pacific Northwest History

HIST 110 Indians of the Columbia Plateau

HIST 111 Introduction to Native American History

HIST 195 Special Topic: (US History topics only)

HIST 200 Historical Foundations

3 credits

HIST 193 FYS may be used for three 100-level elective credits.

Upper Division

HIST 300 Historical Methods 3 credits

HIST 300-level electives 15-18 credits

HIST 400 Senior Thesis/Seminar 3 credits

** (HIST 497 Internship may count for up to three (3) 300-level elective credits)

Minor in History: 18 Credits

Lower Division

HIST 100-level electives 6 credits

HIST 200 Historical Foundations 3 credits

Upper Division

HIST 300-level electives 9 credits

Asian History Minor: 18 Credits

Lower Division

HIST 112 World History 3 credits

HIST 100-level elective 3 credits

HIST 200 Historical Foundations 3 credits

Upper Division

HIST 300-level electives from approved list* 9 credits

*A max of 3 credits from approved courses in other disciplines

Latin American History Minor: 18 Credits

Lower Division

HIST 100-level electives 6 credits

HIST 200 Historical Foundations 3 credits

Upper Division

HIST 300-level electives from approved list* 9 credits

*A max of 3 credits from approved courses in other disciplines

Race & Ethnic Communities Minor: 18 Credits

Lower Division

HIST 100-level electives	6 credits
HIST 200 Historical Foundations	3 credits

Upper Division

HIST 300-level electives from approved list*	9 credits
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*A max of 3 credits from approved courses in other disciplines

Courses:

HIST 101 Foundations of the West **credit(s): 3**

A survey of the West's origins in the Near East, the classical Mediterranean, the foundations of monotheism, and developments to the early modern era.

Fulfills the following degree requirement(s): Core: History

HIST 102 The West and the World **credit(s): 3**

A survey of the early modern and modern West with emphasis on ideas, politics, and social changes.

Fulfills the following degree requirement(s): Core: History

HIST 103 United States History I **credit(s): 3**

This course surveys North American history from the continent's first peopling through the end of the U.S. Civil War. It pays special attention to: the relationships between Indigenous and European nations; the creation and growth of the United States; the interconnectedness between American slavery and American freedom; the defining structures of genders, races, ethnicities, and classes. It covers some of the major social, cultural, political, economic, intellectual, religious and environmental forces that shaped the early North American continent and the young United States.

Fulfills the following degree requirement(s): Core: History

Equivalent(s): HIST 201

HIST 104 United States History II **credit(s): 3**

This course surveys U.S. History since the end of the Civil War with an emphasis on broad economic, political, social, and cultural changes. The course explores transformative events, ideas, and developments, including: Reconstruction and racial segregation; industrialization, immigration, and urbanization; progressive reforms and reactionary politics; WWI and WWII; the Great Depression; the Cold War, anti-communism, and suburbanization; the Vietnam War; civil rights movements; and the changing role of the U.S. in global affairs. The course addresses the perspectives, struggles, and successes of the many communities that have shaped America's diverse society and culture.

Fulfills the following degree requirement(s): Core: History, Core: Writing Enriched

Equivalent(s): HIST 202

HIST 105 Russia: Nation, State, Empire **credit(s): 3**

This course is a broad survey of Russian history. Students will become familiar with the features of Russian culture and the forms that Russian statehood has taken from the middle-ages through the imperial and Soviet eras.

Fulfills the following degree requirement(s): Core: History

HIST 106 Asian and Pacific Islander American History **credit(s): 3**

Examines U.S. history by centering Pacific Islander/Americans and Asian Americans. Provides an introduction to immigration, community-formation, colonization, racialization, labor, legal restrictions, activism, and justice movements.

Fulfills the following degree requirement(s): Core: History, Core: Writing Enriched

Equivalent(s): CRES 106

HIST 107 The Ancient World **credit(s): 3**

This course is a survey of the ancient world, from the rise of early human cultures and the development of early human society to the creation of complex civilizations such as Greece and Rome.

Fulfills the following degree requirement(s): – Core: History

HIST 108 Introduction to Pacific NW History **credit(s): 3**

An introduction to the social, economic, political, and cultural development of the Pacific Northwest since the late eighteenth century. The primary geographical focus is on Washington, Oregon, and Idaho. The course explores three overarching themes: the region's social and cultural diversity, competition over the region's natural resources, and the development of regional identity.

Fulfills the following degree requirement(s): Core: History

HIST 109 History of Islamic Societies **credit(s): 3**

In this course students will investigate how Muslims have elaborated on the revelation received by the Prophet Muhammad to build the social, cultural, and political institutions constitutive of Islamic societies. They will explore how gender, sexuality, race, and class functioned in the building of these institutions from 600 CE - 1600 CE across the Middle East, North Africa, Central and South Asia.

Fulfills the following degree requirement(s): Core: Global Studies, Core: History

HIST 110 Indians of Columbia Plateau **credit(s): 3**

This course will explore Native American groups on the Columbia Plateau, including their traditional lifestyles, traditional and colonial religions, the Salish language, and responses to settlement and government policies. We will also examine the traditions of cooperation and collaboration among these groups. We must understand the geography of the Plateau, in order to fully contextualize the importance of homeland and traditional practices, so this course represents place-based study of Native American history. Spring.

Fulfills the following degree requirement(s): NTAS - elective, Core: Social Justice, Core: Global Studies, Core: History

Equivalent(s): HIST 210, NTAS 210

HIST 111 Introduction to Native American History **credit(s): 3**

Hundreds of Indigenous groups made their home in North America for centuries before European colonial expansion reached these shores. Native communities might describe this occupancy as 'since time immemorial.' This class will begin with an exploration of those earlier

eras and will acknowledge that each Native community was/is distinct from other communities. Thus, while we can observe commonalities in Native experiences and histories, we will also conclude that there is no 'single' Native perspective. To develop this conclusion, we will assess processes of change over time across what we now know as the United States. This course will consider social and cultural approaches to preserving and passing down Native American histories as well as U.S. history interpretations of Native Americans' societies, cultures, economies, and spiritualities. "Texts" in this course will include history books, literature, images, and film, and we will create and respond to research questions using primary and secondary sources.

Fulfills the following degree requirement(s): NTAS - elective, Core: History, Core: Global Studies, Core: Social Justice

Equivalent(s): HIST 211, NTAS 211

HIST 112 World History **credit(s): 3**

A survey of world history that examines global societies' internal transformations as well as their interactions over time.

Fulfills the following degree requirement(s): Core: History

HIST 190 Directed Study **credit(s): 1-3**

Topic to be determined by faculty.

HIST 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

HIST 195 Special Topics **credit(s): 1-4**

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

HIST 200 Historical Foundations **credit(s): 3**

This course is a preliminary introduction to the discipline of History. It is a requirement for History majors and minors, and introduces methods used by historians. Special attention is paid to finding, evaluating, and using sources in ways appropriate to the discipline of History. It also teaches students how to consider the relevance of historical skills and knowledge to their professional and academic development. For History majors, it is the first of three required courses and a prerequisite for History 300—a course in which students practice many of the skills learned here in more sophisticated ways.

HIST 300 Historical Methods **credit(s): 3**

HIST 300 is the second of three required courses for all History majors. Building on foundational skills developed in HIST 200, this course provides an in-depth discussion of the discipline of History and will help students further develop the skills necessary to contribute to the field. Students will explore a diversity of History specialties and engage in a variety of research and

writing assignments. Instructors will guide students through various activities to hone their research and writing skills necessary to succeed.

Equivalent(s): HIST 301

Restriction(s):

Must be in the following Major(s): History

HIST 302 The Ancient City

credit(s): 3

This course is a survey of the development of the city in the ancient world. Students will explore urban forms and processes as they are shaped by - and as they shape - their social, cultural, economic and physical contexts. The course will focus on representative urban centers of the ancient Near East, Egypt, and the Mediterranean world, tracing the evolution of ancient urbanism from the Near East to the classical worlds of Greece and Rome.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - Greek course, CLAS - History course, CLAS - Rome course

Equivalent(s): VART 403

HIST 303 Athens in the 5th Century BC

credit(s): 3

The history of ancient Greece from the Bronze Age through the end of the fifth century BC, with special emphasis on the city of Athens and its political, social, and economic landscape during Classical Greece.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - History course

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 304 Alexander the Great and Hellen World

credit(s): 3

The political, social, and cultural history of Greece and the Hellenistic World from 399 to 30 BC, from the death of Socrates to the death of Cleopatra. The course will focus particularly on the rise of Macedon as a Mediterranean power, the achievements of Alexander the Great, and the transformation of the eastern Mediterranean under the monarchies of the Hellenistic Period.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - History course

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 305 The Roman Republic

credit(s): 3

The political, social and cultural history of Republican Rome from its legendary origins to the Battle of Actium and its de facto end in 31 BC. The course will focus closely on the factors leading to the Republic's successful rise as uncontested Mediterranean ruler as well as the internal political and social conflicts that brought the Republic crashing down to its ultimate fall. (also offered through Gonzaga in Florence on an intermittent basis.)

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - History course, CLAS - Rome course, ITAL - Studies upp div elec

Equivalent(s): ITAL 363

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 306 The Roman Empire credit(s): 3

The political, social and cultural history of Rome during the age of the Emperors, from Augustus' creation of the Principate in 27 BC to the decline of the Roman Empire in the west by the 5th century AD. Special focus in this course will be given to the workings of the Imperial system, daily life in Rome and the provinces, the rise of Christianity and the ultimate transformation of the empire.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - History course, CLAS - Rome course, ITAL - Studies upp div elec

Equivalent(s): ITAL 364

HIST 307 Archaeology of Ancient Greece credit(s): 3

This course examines the techniques and methods of classical archaeology as revealed through an examination of the major monuments and artifacts of Ancient Greece and its neighbors. Architecture, sculpture, vase and fresco painting, and the minor arts are all examined, from the Bronze Age through the Hellenistic period. We consider the nature of this archaeological evidence, and the relationship of classical archaeology to other disciplines such as history, art history, and the classical languages.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - Greek course, CLAS - History course

Equivalent(s): VART 404

HIST 308 Archaeology of Ancient Rome credit(s): 3

This course examines the techniques and methods of classical archaeology as revealed through an examination of the major monuments and artifacts of ancient Rome and its neighbors. Architecture, sculpture, vase and fresco painting, and the minor arts are all examined, from the Early Iron Age through the Late Roman period. We consider the nature of this archaeological evidence, and the relationship of classical archaeology to other disciplines such as history, art history, and the classical languages.

Fulfills the following degree requirement(s): VART - History, CLAS - Elective course, CLAS - History course, CLAS - Rome course

Equivalent(s): VART 405

HIST 309 Italy: Homeland of the Romans credit(s): 3

This course focuses on history, culture, society, religion, art, architecture, literature and daily life of the Romans, from Rome's beginnings in myth and legend through its rise to the domination of the Mediterranean world, its violent conversion from a Republic to an Empire and the long success of that Empire until its collapse in the fifth century A.D. Gonzaga in Florence only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

HIST 310 Native American Activism credit(s): 3

Federal Indian policies and assertions of tribal sovereignty will provide context for discussions of Native American activism. We will discuss regional and national pan-Indian organizations, and we will also recognize the value of community-based activism. Local movements can include language preservation, restoration of traditional foods, community-designed and

operated tribal museums and political engagement at all levels of government. Spring, every four years beginning 2014.

Fulfills the following degree requirement(s): HIST - Non-West/Dev Area, NTAS - elective, Core: Social Justice, Core: Global Studies

Equivalent(s): NTAS 310, SOSJ 359

HIST 311 Medieval Europe

credit(s): 3

Developments in the first flowering of western Europe circa 500-1350, including feudalism, the rise of representative assemblies, the commercial revolution and the papal monarchy. Gonzaga in Florence only.

Equivalent(s): CATH 331, ITAL 366

Restriction(s):

Must not be the following Class(es): Freshman

HIST 312 Renaissance Europe

credit(s): 3

A history of western Europe circa 1350-1550, examining the political, religious, social, and economic context for the cultural achievements of the humanists, artists, dramatists, scientists, architects, and educators of the age of Joan of Arc, Michelangelo, the Tudors, and the Medici.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): CATH 332, ITAL 367

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 315 Medieval Britain

credit(s): 3

A survey of the political, religious, social, and cultural history of the British Isles, circa 100-1485, examining Celtic, Roman, Anglo-Saxon, Viking, Norman, and Plantagenet interactions. Topics will include Christianization, the Viking and Norman invasions, Magna Carta and Parliament; relations of England, Wales, Scotland, and Ireland.

HIST 316 Tudor and Stuart Britain

credit(s): 3

British religious, political, social, cultural, and economic developments from the late 1400s to 1689, including the War of the Roses, the English Renaissance and Reformation, the Civil War and Restoration, and the Revolution of 1688.

HIST 320 Global History of Science

credit(s): 3

This course investigates the history of science in Europe, the Middle East, and Indian Ocean from antiquity to the early-modern period. It invites its participants to imagine ways of transcending the conventional opposition of these geographies and chronologies. Course participants will strive to understand Eurasia, the Mediterranean Basin, and Indian Ocean littoral as comprising an integral, brilliantly diverse region animated by shared textual and intellectual inheritances, and as an intercontinental community through which peoples, ideas, and objects enduringly circulated and interacted with one another.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Global Studies

HIST 321 Irish History Since 1500

credit(s): 3

This course has two purposes: to provide a broad overview of the major historical developments in Ireland from the seventeenth century to the twentieth century, and to introduce students to the historiographical debates that shape the study of modern Irish history. We will read about and discuss pivotal moments in Irish history during this time period,

trying to understand what the primary agents of historical change in the country were, and what variable factors might have allowed the country's history to follow a different path.

Fulfills the following degree requirement(s): Core: Writing Enriched, Core Global Studies

Equivalent(s): CATH 333

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 322 20th Century Northern Ireland credit(s): 3

This course explores the troubled history of Northern Ireland from the perspective of the two communities that live within it, as well as that of the British and Irish governments. It examines key events in Northern Ireland's recent history such as Bloody Sunday, internment, the murder of Lord Mountbatten, the hunger strikes, the Enniskillen and Omagh bombings, and the steps to the Peace Process. The course emphasizes how peace has been achieved in the wake of the "Troubles" as it examines whether the Good Friday Agreement can offer lessons to other conflict zones around the world.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, Core: Writing Enriched, Core Global Studies

Equivalent(s): CATH 334, INST 348

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 323 Disunited Kingdom credit(s): 3

In this course, we will explore how Britain and Britishness are modern constructions. We will begin our analysis by studying the ancient and medieval connections between the nations we know today as England, Ireland, Scotland, and Wales, and then explore how the United Kingdom came into being. The latter part of the course will focus on how tension remains between these older national identities and a more modern sense of unified Britishness.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, Core: Writing Enriched, Core Global Studies

Equivalent(s): INST 386

HIST 329 Nazi Germany credit(s): 3

This course examines German politics and society during the Weimar and Nazi periods. Its main emphasis is the relationship between the German people, Adolf Hitler, and the Nazi Party, and the impact that Nazism had on German society and institutions. The course further emphasizes the Nazi regime's foreign policy objectives as well as its racial goals, each of which found their fullest expression during World War II and the Holocaust. As these extremes aspect of the Third Reich pose the central problems of modern European history, students who complete this course will become familiar with the documents and historiography that inform the history of the Nazi era.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, Core: Writing Enriched, Core Global Studies

Equivalent(s): INST 397

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 330 The Holocaust **credit(s): 3**

A history of the Nazi genocide of the Jews in World War II, including its origins and historical context, the methods used by the Nazis to identify and exterminate victims, a study of the perpetrators, the reaction of the international community, and post-war historiography, interpretation and commemoration. Gonzaga in Florence only.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Comm West, RELI - Contemporary Issues, RELI - Sacred Texts 01-24, RELI - World's Religion conc

Prerequisite(s): or HIST 112H

HIST 331 World War II **credit(s): 3**

The causes, conduct and consequences of the Second World War.

HIST 334 Russia and USSR Since 1945 **credit(s): 3**

This course may be considered an autopsy on the Soviet empire. Its themes include: "developed" socialism under Stalin's successors; the rise and decline of the Soviet economy; the Cold War; the Soviet Union's nationalities issues; the impact of Gorbachev's reforms; and the collapse of the USSR. The course will also consider the domestic and foreign policy challenges faced by Yeltsin and Putin after 1991.

Fulfills the following degree requirement(s): Core: Writing Enriched

Equivalent(s): INST 334

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 336 History of Food **credit(s): 3**

What historical processes have determined how Italians (and others) eat today? What role does food production and consumption play in history? This course is an investigation of humans in the Mediterranean and the food they eat and cultivate, and it will help us understand that the food we eat is the product of a historical process. Gonzaga in Florence only.

HIST 337 The Stalin Era **credit(s): 3**

This course focuses on the dictatorship of Josef Stalin from the late 1920s until his death in 1953. Its main topics include: Stalin's consolidation of personal rule; the impact of crash industrialization and agricultural collectivization; Stalinist terror; the Soviet experience in World War II; the worldwide influence of the Soviet model after the war; and the legacy of Stalinism in Russia.

Equivalent(s): INST 337

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 338 Fascist Italy **credit(s): 3**

Italian history from 1918 to 1945, including an examination of social and economic conditions in post-World War Italy, rise of the Fascist Party, the role of Benito Mussolini, the nature of Fascist government in Italy, Italian imperialism under Mussolini, and the part played by Italy as an ally with Hitler's Germany. Offered through Gonzaga in Florence on an intermittent basis.

Fulfills the following degree requirement(s): INST - European Studies, ITAL - Studies upp div elec

Equivalent(s): INST 391

HIST 339 Modern France: 1789 to Present credit(s): 3

Since the late eighteenth century, the French have experimented with a multitude of political arrangements, from absolute monarchy to radical utopian visions of socialism. In this light, modern France might be imagined to have been a political laboratory, providing inspiration (or dread) for much of the rest of Europe. Beginning with the revolution of 1789, this course will explore the political volatility experienced in France over the next two centuries.

Fulfills the following degree requirement(s): Core: Writing Enriched, Core: Global Studies

HIST 340 The Cold War credit(s): 3

The focus of this course is the ideological and geopolitical confrontation between the superpowers that shaped the second half of the twentieth century. The course analyzes the origins of the Cold War, its global manifestations in Europe and the non-western world, as well as the effects of the Cold War on American and Soviet societies and cultures.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 341 African Nationalism credit(s): 3

This course examines closely African countries' internal histories as they transitioned from colony to nation from the 1940s through the 1990s. While not ignoring the roles played by colonial masters and indigenous elites, the heart of the course explores how ordinary men and women shaped these processes.

Fulfills the following degree requirement(s): Core: Global Studies

Equivalent(s): INST 340

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 342 African History through Film credit(s): 3

This course explores African history by examining the roles that Africans have played historically as creators, audiences, and subjects of films. Using both film studies and African studies concepts, the course interrogates African film as both artifacts and interpretations of the past.

Fulfills the following degree requirement(s): Core: Global Studies

Equivalent(s): FILM 343, INST 311

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 343 Colonial Africa credit(s): 3

This course examines the colonial period through the lived realities of Africans themselves. In particular, it considers the ways in which African and colonial systems of economics, politics, gender, and community were brought into dynamic tension during the decades of colonial rule.

Fulfills the following degree requirement(s): Core: Global Studies

Equivalent(s): INST 363

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 344 African Health and Healing credit(s): 3

This class interrogates how African understandings of health and practices of healing transformed from the precolonial through the post-independence periods. In particular, we will study the interrelationship between health and politics in African thought, the integration of

western biomedicine into African systems of healing, and the changing disease landscape of capitalism, colonialism, and globalization.

Fulfills the following degree requirement(s): Core: Global Studies

Equivalent(s): INST 364

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 345 African Environmental History credit(s): 3

This course explores the long-term history of Africans' dynamic interactions with their environments by interrogating how African environmental realities and Africans' conceptions of the environment shaped broader political, social and economic histories. Beginning in the precolonial period, we will trace how climatic variation, political and economic changes in the colonial period, and post-independence priorities transformed Africans' relationships with their environments.

Fulfills the following degree requirement(s): Core: Global Studies

Equivalent(s): ENVS 343, INST 341

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 350 The City in American History credit(s): 3

How, when, and why did cities in America develop where they did? How do physical form and institutions vary from city to city and how are these differences significant? This course will explore these and other questions while emphasizing twentieth-century American cities. We will examine urban populations, city culture, crime, municipal politics, and sustainability.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 352 The Early American Republic credit(s): 3

This course examines the critical period of the young United States from the American Revolution until approximately 1850. Topics covered include: immigration, expansion, nationalism, conceptions of race and ethnicity, labor, slavery, gender, reform movements, industrialization, Native American/U.S. relations, popular democracy and religion. All of these will be considered in light of the processes by which the United States began to cohere as a nation both politically and culturally.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities

HIST 353 US Civil War and Reconstruction credit(s): 3

Although this class will center around the American Civil War (1861-1865), it will even more so be a history of the United States from approximately 1820 through 1880, in order to effectively place the war in its appropriate historical contexts of the political, economic, social, and cultural history of the mid-nineteenth century. This course will examine the nature and creation of regional distinctiveness in the United States, the centrality of race and slavery to the nation, the causes of disunion, the nature and character of the Civil War which followed, the war's diverse effects on the whole American populace, the nation's attempt at reconstruction, and the war's legacies that still inform our nation today.

HIST 354 American Latina/o History credit(s): 3

An introduction to the history of American Latina/o communities from the nineteenth-century wars that brought northern Mexico, Cuba, and Puerto Rico under U.S. control; through the first

major waves of immigration that brought Mexicans and other Latinas/os to the U.S.; through multiple generations of hardship, cultural transformation, and political mobilization; and finally to the issues and challenges of the early twenty-first century. Themes and topics include military conquest and resistance, immigration, discrimination and segregation, labor and migration, community formation, gender and sexuality, military service, religious faith and activism, civil rights activism, the farmworker movement, cultural nationalism, the evolution of diverse Latinx identities, and the overarching context of U.S. relations with Latin America.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, HIST – Latin American History, Core: Social Justice

Equivalent(s): CATH 335

HIST 355 The American West

credit(s): 3

An introduction to the history of the region. The course offers an overview of regional settlement, cultural diversity, social relations, economic development, urban growth, and politics. The course also explores the meaning of the West to the nation through the work of writers and filmmakers.

HIST 358 African-American History

credit(s): 3

This course explores the lives and experiences of African -Americans from the colonial era to the present. This seminar-style course allows students to examine historic changes in communities, values, obstacles, activism, and traditions that sustained these citizens, workers, families, communities, and activists.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities , SOSJ - Block B, Core: Social Justice

Equivalent(s): SOSJ 326

HIST 359 Indigenous Early America

credit(s): 3

This course will explore the history of Early America through Indigenous perspectives. It will consider the rich and diverse histories of North American tribes, analyze their varied responses to the processes of colonization, and connect these legacies to the present. Topics discussed include political engagement, commodities exchange, resource competition, religious encounters, gender roles, slavery, and racialization. Lectures, discussions, activities, and research will challenge students to re-imagine colonial North America as Native America by centering Indigenous actors.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities , NTAS – elective, Core: Global Studies

Equivalent(s): NTAS 359

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 360 Pacific Northwest History

credit(s): 3

The social, economic, political, and cultural development of the Pacific Northwest from the late eighteenth century to the present. The primary geographical focus is on Washington, Oregon, and Idaho. The course focuses on three overarching themes: the region’s social and cultural diversity, competition over the region’s natural resources, and the development of regional identity.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 361 Post-WWII Presidency credit(s): 3

The post-1945 presidency evolved and changed drastically as consequence of domestic and foreign events and ideology. We will examine the powers and limitations of the post-1945 U.S. presidents in both foreign and domestic affairs. We will assess their relationships with Congress, the American people, the press, and other nations, and we will explore presidential power, agenda, persuasion, secrecy, and character.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 362 U.S. Foreign Policy Since 1945 credit(s): 3

HIST 362 will examine the United States' foreign policies formulated and implemented after World War 11, during and immediately after the Cold War, and in the post-9/11 era. We will discuss NATO and our relationship with the European nations and evaluate U.S. policies in Asia, particularly our actions in Vietnam and our relationship with China. We will also assess the U.S. role in Latin America and Africa, and diplomacy and conflict in the Middle East.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 363 Women in United States History credit(s): 3

This course explores the history of American women from the colonial era to the present using a women and gender studies framework. The class investigates gender roles and the ways that race, class, politics, national origin, colonization, and the passage of time alter those expectations. This seminar style course investigates women's economic and political lives and social contributions through suffrage, reform, civil rights, feminism, and more.

Equivalent(s): WGST 330

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 364 Public History credit(s): 3

Why are people drawn to the past? When they go searching for it, where do they go, and what do they find? What should they find? This course examines the practice and politics of "public history." As we will see, public historians work as museum curators, historic preservationists, historic site interpreters, archivists, film consultants, writers, and editors. In these and other roles, public historians help individuals and organizations recognize, contend with, and learn from the complexities of the past. Through weekly readings, site visits, guest speakers, and hands-on project experience, this course will introduce students to the challenges and rewards that accompany engagement with and employment within the field of public history.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 365 Environmental History credit(s): 3

In examining the dynamic relationship between humans and their environment over time, this course explores how nature affects cultural responses and how humans, in turn, have shaped the world around them. Employing a multidisciplinary approach this course draws upon

ecological, historical, economic, or political analysis to illuminate the varied relationships between people and place.

Equivalent(s): ENVS 353

Restriction(s):

Must not be the following Class(es): Freshman

HIST 366 American Cultures and Ideas

credit(s): 3

This course will examine American history through an exploration of its culture. Throughout this course we will work towards defining what culture is, how it shapes expectations and assumption, how it motivates human actions and interactions, and how it is bound by time and place. Each student's ability to critically read cultural sources from an appropriately historical frame of reference will be tested in a variety of assignments, including weekly readings, writing assignments, and active class participation.

Fulfills the following degree requirement(s): VART - History, HIST - Race&Ethnic Communities

Equivalent(s): VART 406

HIST 367 Rights Justice and US Citizenship

credit(s): 3

This course explores the history of citizenship in the United States from its founding in the Revolutionary era to the present by examining how and why the rights and obligations of citizenship have changed over time. This seminar style course includes discussions of philosophical and theoretical frameworks involved in building and in understanding citizenship including reform efforts that aspired to democratize institutions that treated citizens differently because of race, ethnicity, class, national origin, or gender. This course is geared towards students interested in history, law, politics, ethnic studies, women's studies, and social movements.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities , SOSJ - Block C

Equivalent(s): SOSJ 341

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 368 The U.S. in the World

credit(s): 3

This course will introduce you to the history of the United States in its global context. In order to situate the United States within its world, this course explores the interconnections between domestic beliefs, national policy, and international events.

Equivalent(s): INST 356

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 369 A History of Race in America

credit(s): 3

Why is there race? This course will examine the history of the inventions, transformations and expressions of the idea of race as a category of difference in American thought and experience from pre-contact to the present. The course will consider intellectual, cultural, legal, social, economic, and political manifestations of this idea, with special attention given to how the idea has been applied and experienced in diverse ways across North America over time.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities , Core: Social Justice

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 370 Foundations of East Asian Civilization credit(s): 3

This course seeks to give students an understanding of the history and culture of pre-modern China, Japan, Korea, and Vietnam. After exploring the historical roots of Confucianism, Daoism and Buddhism in China, students will examine the ways in which these foundational philosophies helped form social, cultural, and political institutions in China and its neighbors. Students will also focus attention on the historical emergence of the Chinese imperial system, and its greatest pre-modern exemplars, the Qin, Han and T'ang dynasties. Not limiting the focus to China alone, students will also explore how the concept of China as the "middle kingdom" influenced the language, religion and political developments in Japan and Korea, leading to an authentic "macro-culture" in East Asia. The course will finish with a discussion of samurai culture and an analysis of how the Mongol conquests of Central and East Asia transformed the region, taking students to the threshold of the early modern period in Asia. It is desired, but not required, that students take HIST 112 prior to this course.

Fulfills the following degree requirement(s): HIST - Asian History

Equivalent(s): INST 384

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 371 Modern Pacific World credit(s): 3

This course brings together the histories of Asia, the Americas, and Oceania since the 18th century by examining how human migration in and throughout the Pacific region and reshaped it over time. Investigating sojourners, merchants, laborers, soldiers, imperial administrators, colonial subjects, women, and business elites allows us to understand changes in economic exchange, political influence, geographic knowledge, racial beliefs, the rise and fall of empires, and the era of globalization.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communities, HIST - Asian History

Equivalent(s): INST 371

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 372 China Past and Present credit(s): 3

This course is a focused survey of Chinese history from the Shang Dynasty (c. 1600 B.C.) up to the present. Using the standard interpretive categories of politics, economics, society, and culture, the course will explore such topics as pre-imperial China; the Qin-Han consolidations and breakdowns; pre-modern Imperial China (Jin, Sui, Tang, Song, including inter-dynasty kingdoms); the Mongol (Yuan) dynasty; early modern and modern imperial China (Ming and Qing); and the Revolutionary periods of the twentieth century, including the Guomindang era, Maoism, and Post-Mao modernizations. Students who take this course for International Studies credit will be required to do an extra writing assignment that integrates the material of this course with their International Studies focus. It is desired but not required that students will have taken History 112 prior to taking this course

Fulfills the following degree requirement(s): HIST - Asian History

Equivalent(s): INST 374

Restriction(s):

Must not be the following Class(es): Freshman

HIST 373 Japan Past and Present credit(s): 3

This course is a focused survey of Japanese history from the Jomon Period (c. 14,000 B.C) up to the present. Using the standard interpretive categories of politics, economics, society, and culture, the course will explore such topics as the Jomon and Yayoi classical ages; the Yamato, Nara, and Heian aristocratic ages; the Kamakura, Ashikaga, and Tokugawa warrior ages, and the modern period from the Meiji Restoration through the twentieth century. Students who take this course for International Studies credit will be required to do an extra writing assignment that integrates the material of this course with their International Studies focus. It is desired but not required that students will have taken History 112 prior to taking this course.

Fulfills the following degree requirement(s): HIST - Asian History

Equivalent(s): INST 375

HIST 374 Maoist China credit(s): 3

This course is an in-depth study of China during the revolutionary twentieth century, focused upon the career of People's Republic of China Chairman Mao Zedong. In addition to analyzing the political, economic, social, and cultural developments of post-imperial China, the course takes a look at the theory of revolution, and examines China's historical development in the context of imperialism, post colonialism, and international Marxist revolution. It is desired, but not required, that students take HIST 112 prior to this course.

Fulfills the following degree requirement(s): INST - Asian Studies content, HIST - Asian History

HIST 376 Tokugawa Japan credit(s): 3

This course is an in-depth study of Japan's "early modern" period, covering the years of the Tokugawa Shogunate (1603-1868). In addition to analyzing the political, economic, social, and cultural developments of Japan's centralized feudal period, the course takes a look at the theory of modernity and examines Japan's historical development in the context of modernization.

Fulfills the following degree requirement(s): HIST - Asian History

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 378 Zen Modernity and Counterculture credit(s): 3

This course is an in-depth study of the historical relationship between modern Japanese Zen Buddhism and the American counter-culture of the post WWII period. Through readings and discussions of a number of religious, literary and historical works, the course explores the degree to which the modern "reinvention" of an ancient Japanese religious tradition has influenced, and continues to influence western popular culture.

Fulfills the following degree requirement(s): HIST - Asian History

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 379 Technology and Human World credit(s): 3

This course will provide a comprehensive survey of the development of science and technology in the context of world history and will invite students to take part in a critical engagement of the mutually productive qualities of history and technology in a context of modernization.

HIST 380 Colonial Latin America credit(s): 3

A survey of colonial Latin America that examines the contact, conflict, and accommodation among Europeans, Native Americans, and Africans that shaped colonial Latin America.

Fulfills the following degree requirement(s): HIST - Latin American History, HIST - Race&Ethnic Communities , NTAS - elective

Equivalent(s): INST 372, NTAS 341

HIST 381 Modern Latin America credit(s): 3

A general introduction to the history of the former colonies of Spain and Portugal in the Western Hemisphere. Topics include the rise of caudillos, rural developments, the emergence of liberal economic development, populism, banana republics, dictatorships, dirty wars, Marxist revolution, and contemporary predicaments.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): INST 394

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 382 Revolutions in Mod Latin Amer credit(s): 3

This course examines the origins, emergence, process, and consequences of major Latin American social and political revolutions in the twentieth century. It will investigate a variety of types of revolutions including different urban and rural movements, as well as groups that sought radical change from high politics to the grass roots level.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): INST 369

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 383 Mexico credit(s): 3

A survey of Mexican history from the Aztec wars to the present.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): INST 377

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 384 Women in Colonial Latin Amer credit(s): 3

This course will investigate the lives of women in both the pre-contact and post-conquest societies. The first part of the course concentrates on the activities of women, and their role in society, among the Aztecs, Inca, and Pueblo civilizations. The course will follow with the study of their experiences after the Spanish Conquest. The final section of the course will cover the variety of women, ranging from wealthy Spanish women, established nuns, marginal mystics, Indian leaders, and African women, and their experiences in the Spanish colonies. In class, students will learn about and discuss the various gender systems which operated in different periods, and how these systems shaped women's lives as women shaped the systems themselves.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): WGST 331

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 389 History Plays: Fact and Fiction Story credit(s): 3

In the twenty-first century, American playwrights have increasingly begun to draw upon history to create dramas and comedies which add nuance and context to stories audiences think they already know. This class will use historiography - the study of historical writing - to reveal who has written history and why those scholars were imbued with authority to write the narratives they did. At the same time, we will investigate how playwrights are drawing upon/challenging/complicating those narratives and we will consider what "authority" means when Native-authored content, for example, is placed side-by-side with scholarship about (not by) Native people. If you like stories, reading, and understanding why writing about the past carries both power and responsibility, this class is for you.

Fulfills the following degree requirement(s): NTAS - elective

Equivalent(s): NTAS 389

Restriction(s):

Must be in the following Major(s): English, English, History, History, Native American Studies, Theatre Arts, Theatre Arts

Must be the following Class(es): Freshman, Junior, Post-Bacc, Senior, Sophomore

HIST 390 Topics in History credit(s): 1-3

Course repeatable for 12 credit.

Selected historical topics of current and special interest.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 391 Topics in History credit(s): 1-3

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 392 Topics in History credit(s): 1-3

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

Fulfills the following degree requirement(s): Enriched

HIST 393 Topics in History credit(s): 1-3

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

HIST 394 Topics in History credit(s): 1-3

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

HIST 395 Topics: History (Study Abroad) credit(s): 1-5

Course repeatable for 18 credit.

Selected historical topics of current and special interest.

HIST 396 Topics in History credit(s): 1-9

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

HIST 398 Topics in History **credit(s): 1-3**

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

Restriction(s):

Must be the following Class(es): Junior, Senior

HIST 399 Topics in History **credit(s): 1-3**

Course repeatable for 9 credit.

Selected historical topics of current and special interest.

HIST 400 Senior Thesis - Seminar **credit(s): 3**

HIST 400 is the History capstone course, designed as a research seminar for majors. Students will continue to develop their understanding of the methods and skills of contemporary historical practice. They will demonstrate their mastery of the discipline through discussions, assignments, peer review, and the research and writing of a thesis project using relevant primary and secondary sources.

Fulfills the following degree requirement(s): Core: Writing Enriched

Equivalent(s): HIST 401

Restriction(s):

Must be in the following Major(s): History

Prerequisite(s): HIST 300

HIST 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

HIST 490 Directed Reading and Research **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by faculty.

HIST 497 Internship **credit(s): 0-6**

Course repeatable for 9 credit.

Students will apply historical methods and analytical skills at a non-profit or for-profit site such as a museum, archive, preservation office, government office, or other research or historical site. Instructor permission required to register.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

HIST 498 Advanced Historical Writing

credit(s): 1

This course is designed for students who have taken HIST 300 or HIST 400 and who wish to improve their historical and writing skills by continuing work on their research papers.

Prerequisite(s): HIST 300

HIST 499 Thesis

credit(s): 0

In exceptional cases only, this course may be taken in lieu of HIST 400 with the permission of the Department Chair of History.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): History

Must be the following Class(es): Senior

Integrated Media

Chairperson: Shannon Overbay

Associate Professors: S. English (Emerita), R. Lyons, S.J. (Emeritus), M. McCormick, C. McMahon

Assistant Professors: J. Collett, K. Hill, P. Minty

Senior Lecturer:

Lecturer: R. Prindle, J. Davis

The department offers three majors and four minors:

Bachelor of Arts, Broadcast and Electronic Media Studies major

Bachelor of Arts, Journalism major

Bachelor of Arts, Public Relations major

Minor in Broadcast and Electronic Media Studies

Minor in Journalism

Minor in Public Relations

Minor in Visual Literacy

Gonzaga's Integrated Media Department weaves the related disciplines of Journalism, Broadcast and Electronic Media Studies and Public Relations into an environment where students can learn and hone their writing, interviewing, strategic communications and technological skills while specializing in a path that becomes a bridge to a career or to further scholarship in graduate school.

The Integrated Media Department offers majors and minors in Broadcast and Electronic Media Studies, Journalism, Public Relations, and Visual Literacy.

The Integrated Media programs strive to guide students toward academic excellence and tangible career goals. The curriculum reflects the Jesuit, Catholic character and liberal arts tradition of Gonzaga.

Students have many opportunities to develop and experiment with storytelling and strategic communication techniques using multiple platforms and methods, learning through the lens of social justice and Ignatian pedagogy.

The coursework in Integrated Media programs balances development of the skills and use of technology required of professionals with philosophical grounding in ethical and proficient communications.

In addition to coursework in traditional classroom settings, students engage in hands-on work in computer labs equipped with software applications that allow students to experience a contemporary news and video-editing environment.

Students further polish the tools of skillful and responsible communication through internships in professional environments, for which academic credit is available.

Campus media outlets that include GUTV and KAGU-FM, Gonzaga's television and radio stations, and The Gonzaga Bulletin (gonzagabulletin.com), the student newspaper, offer opportunities for students to hone media skills learned in the classroom. In addition, stories created for these media entities become substantial portfolio pieces for applications to graduate schools and for internships and employment.

Experiential learning in the broadcast, journalism and public relations arenas are hallmarks of the department.

Integrated Media Department foundation course work:

Majors within the Integrated Media Department are required to complete the following Integrated Media foundation course work:

INMD 101 Media Literacy	3 credits
INMD 360 Media Law	3 credits

Minors within the Integrated Media Department are required to complete the Integrated Media foundation course work:

INMD 101 Media Literacy 3 credits

*Note: No upper-division courses except INMD 360 may be applied to two separate majors and/or minors within the Integrated Media Department without approval of the Department Chair.

Courses:

INMD 101 Media Literacy **credit(s): 3**

An overview of the array of media platforms from which society garners its information. Coursework hones an understanding of the theories, history, technologies, and social impact of media. The course also provides a frame of reference for analysis of the use of evolving media technologies, both in creating and consuming content, with a goal of enabling students to critically evaluate the media and their messages. Required first course for all Integrated Media majors and minors. Fall and Spring.

INMD 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course

highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

INMD 360 Media Law

credit(s): 3

A study of major facets of communications law, including libel, privacy and copyright, and their effects on print, digital and online media. Fall and Spring.

Equivalent(s): JOUR 360

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): INMD 101 or BMIS 245

INMD 410 Special Topics

credit(s): 3

Course repeatable for 12 credit.

Course content focuses on emerging issues and topics that relate to media and media practices.

Equivalent(s): FILM 461, VART 472

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 101

INMD 498 Visual Literacy Capstone

credit(s): 1

The Visual Literacy Capstone reflects on and synthesizes the multitude of visual production techniques addressed throughout the Visual Literacy minor. Students will utilize lessons learned throughout the minor as they turn their focus to the discussion and presentation of their own creative work. As students unpack and summate these lessons, they will create digital portfolios, write artist statements, and explore different ways of professionally sharing and drawing attention to their work. Lab fee. Spring.

Restriction(s):

Must be in the following Major(s): Visual Literacy

Must be the following Class(es): Senior

Prerequisite(s): INMD 101

Broadcast and Electronic Media Studies

Director: John Collett

Associate Professors: J. Collett, M. McCormick

The Broadcast and Electronic Media Studies Program provides students with the worldview and skills necessary for creative and responsible work in the television and radio industries. Broadcasting majors and minors learn to emphasize work that makes a positive difference in their communities and the broader world.

To master their technical skills, students put on a series of live shows that air on GUTV and are posted on its YouTube channel (<https://www.youtube.com/user/GUTVondemand>). Students engage in all aspects of the creation and production of these shows, including on-air roles, camera work, directing, mixing audio, using field cameras and non-linear editing.

Internships in broadcasting-centric workplaces allow students to transfer knowledge and experience acquired in classes to the professional world. Each semester, Spokane-area television and radio news organizations invite our students to work alongside professionals in a range of appropriate roles. University credits are available for internships.

B.A. Major in Broadcast and Electronic Media Studies: 36 Credits

Lower Division

INMD 101 Media Literacy	3 credits
BRCO 203 Fundamentals of Television Production	3 credits
BRCO 204 Fundamentals of Audio Production	3 credits

Upper Division

INMD 360 Media Law	3 credits
BRCO 303 Intermediate Television Production	3 credits
BRCO 370 Broadcast Journalism	3 credits
BRCO 469 Advanced Television Production	3 credits
BRCO 470 Broadcast Leadership	3 credits
BRCO 481 TV and Social Justice	3 credits
BRCO, JOUR or PRLS 300-400 level electives	9 credits
BRCO 499 Capstone	0 credits

Minor in Broadcast and Electronic Media Studies: 21 Credits

Lower Division

INMD 101 Media Literacy	3 credits
BRCO 203 Fundamentals of Television Production	3 credits

Upper Division

BRCO 303 Intermediate Television Production	3 credits
BRCO 304 - BRCO 494 electives	12 credits

Courses:

BRCO 203 Fundamentals of Television Production credit(s): 3

A practicum dealing with the technical aspects of television production along with creative generation of live, original programs. Students learn the basics of how television signals are created and transported, and then acquire proficiency in all crew areas concerned with live productions. In addition, this course provides a much greater sense of media literacy as it applies to mainstream messages in the visual media. Lab fee. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): SOSJ 260

Prerequisite(s): INMD 101 (or concurrent)

BRCO 203L Fundamentals of Television Production Lab credit(s): 0

See BRCO 203 for course description.

Equivalent(s): SOSJ 260L

Corequisite(s): BRCO 203

BRCO 204 Fundamentals of Audio Production credit(s): 3

A practicum dealing with the technical aspects of radio management, programming, and production. Emphasis will be placed on the mastering of all operational procedures. Lab fee. Fall and Spring.

Corequisite(s): BRCO 204L

BRCO 204L Fundamentals of Audio Production Lab credit(s): 0

See BRCO 204 for course description.

Corequisite(s): BRCO 204

BRCO 272 Introduction to Filmmaking credit(s): 3

Intro to Filmmaking is an experiential, hands-on course that introduces students to the fundamental aspects of digital filmmaking. Students will learn basic camera operation, audio recording, screenwriting, and video editing while also examining the creative techniques and ethical considerations associated with the craft of filmmaking.

Equivalent(s): FILM 262, VART 272

Prerequisite(s): INMD 101 and VART 170

BRCO 303 Intermediate Television Production credit(s): 3

An application of the technical and aesthetic aspects of electronic news gathering and production. The class provides experience as camera operators, videotape editors, writers, and

performers. Students are required to achieve a basic level of competency with digital cameras, and become proficient in non-linear editing techniques. Lab fee. Fall and Spring.

Prerequisite(s): BRCO 203 and BRCO 204

BRCO 303L Intermediate Television Production Lab **credit(s): 0**

See BRCO 303 for course description.

Corequisite(s): BRCO 303

BRCO 307 Writing with Sights and Sounds **credit(s): 3**

Students develop creative writing skills for telling stories with the languages of aural and visual media. Traditional media of radio and television are the foundations, but new forms of Internet communications will be studied.

Prerequisite(s): INMD 101

BRCO 320 Image Communication **credit(s): 3**

A study of the fundamental elements of image communication and examination of contemporary image expression as found in film, television, and print. Fall and Spring.

Prerequisite(s): INMD 101

BRCO 370 Broadcast Journalism **credit(s): 3**

Planning, reporting, and practice in gathering information and covering news for radio and television. May include depth reporting and documentaries. Fall.

Prerequisite(s): BRCO 303

BRCO 390 Directed Study **credit(s): 1-6**

Course repeatable for 6 credit.

Topic to be determined by faculty.

BRCO 410 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Course content focuses on emerging issues and topics that relate to broadcasting practice and philosophy.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 101

BRCO 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

BRCO 450 Advanced Audio Production **credit(s): 3**

Organization, preparation, production of audio for a variety of media. Study of recording, mixing and editing of audio elements.

Corequisite(s): BRCO 450L

Prerequisite(s): BRCO 204

BRCO 450L Advanced Audio Production Lab **credit(s): 0**

See BRCO 450 for course description.

Corequisite(s): BRCO 450

BRCO 469 Advanced Television Production **credit(s): 3**

Course repeatable for 9 credit.

Organization, preparation, and production of programs for telecast. Students generate a variety of live-streamed shows, a talk show, and a comedy show, and are responsible for all aspects of each production. Lab fee. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BRCO 303 and BRCO 370 (or concurrent)

BRCO 469L Advanced Television Production Lab **credit(s): 0**

Course repeatable 2 time.

See BRCO 469 for course description.

Corequisite(s): BRCO 469

BRCO 470 Broadcast Leadership **credit(s): 3**

Students will be exposed to media leadership and management situations which deal with day-to-day decision-making, staffing, departmental structures, human resources, accountability, research and strategic planning. Spring.

Fulfills the following degree requirement(s): Leadership elective

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BRCO 303 (or concurrent) or JOUR 310 or PRLS 310

BRCO 472 Creative Filmmaking **credit(s): 4**

In this hands-on course, students will be further explore the technical and creative aspects of digital filmmaking and explore how the medium can be used artistically as a tool for storytelling and self-expression. Through discussions and projects, students will bolster and expand their skillset regarding camera operation, audio recording, and video editing as they create their own short movies.

Equivalent(s): FILM 461, VART 472

Prerequisite(s): VART 272

BRCO 475 Advanced Producing **credit(s): 3**

Course repeatable for 6 credit.

Course topic to be determined by the instructor.

Prerequisite(s): BRCO 469

BRCO 481 Television and Social Justice **credit(s): 3**

Examines the application of this powerful medium toward improving the human condition. Students study examples of this concept in today's media, then use their own analytical and

production skills to improve the condition locally. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BRCO 469 (or concurrent)

BRCO 482 Remote Video Production **credit(s): 3**

Course repeatable for 9 credit.

Provides advanced experience in scripting, producing, directing, and editing televised field events. Examples include baseball games and theatre productions. Lab fee.

Corequisite(s): BRCO 482L

Prerequisite(s): BRCO 203

BRCO 482L Remote Video Production Lab **credit(s): 0**

Course repeatable 3 time.

See BRCO 482 for course description.

Corequisite(s): BRCO 482

BRCO 483 Advanced Non-Linear Editing **credit(s): 3**

Course repeatable for 9 credit.

Students are introduced to state-of-the-art digital editing and learn how the technology is utilized in the industry.

Prerequisite(s): BRCO 303

BRCO 484 Seminar in Live Television **credit(s): 3**

Course repeatable for 12 credit.

Allows students considering a career in live television to specialize in roles of anchor, reporter, producer or director. Lab fee.

Corequisite(s): BRCO 484L

Prerequisite(s): BRCO 469

BRCO 484L Seminar Lab **credit(s): 0**

See BRCO 484 for course description.

Corequisite(s): BRCO 484

BRCO 485 Seminar in Broadcasting **credit(s): 3**

Course repeatable for 6 credit.

Students take on more challenging leadership roles in GUTV broadcasts and post-production by assuming the roles of executive producers and directors, and project coordinators.

Restriction(s):

Must be in the following Major(s): Broadcast and Elect Media, Broadcast and Electronic Media

Prerequisite(s): BRCO 469

BRCO 486 Applied Radio Production **credit(s): 3**

Course repeatable for 12 credit.

Students work with the latest audio production technologies to examine the current state of the radio industry and to participate in creation of radio programming on KAGU-FM.

Corequisite(s): BRCO 486L

Prerequisite(s): BRCO 204

BRCO 486L Applied Radio Lab **credit(s): 0**
See BRCO 486 for course description.

Corequisite(s): BRCO 486

BRCO 491 Directed Studies **credit(s): 0-6**

Course repeatable for 6 credit.

Topic to be determined by instructor.

Restriction(s):

Must be in the following Major(s): Broadcast and Elect Media, Broadcast and Electronic Media

Must be the following Class(es): Junior, Senior

BRCO 492 Independent Studies **credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be determined by instructor.

Restriction(s):

Must be in the following Major(s): Broadcast and Elect Media, Broadcast and Electronic Media

Must be the following Class(es): Junior, Senior

BRCO 494 Special Project **credit(s): 1-6**

Course repeatable for 12 credit.

Topic to be determined by instructor.

Restriction(s):

Must be in the following Major(s): Broadcast and Elect Media, Broadcast and Electronic Media

Must be the following Class(es): Junior, Senior

Prerequisite(s): BRCO 303

BRCO 497 Broadcast Internship **credit(s): 0-6**

Course repeatable for 12 credit.

Pre-professional experience in the environment of a commercial or public radio or television facility. Fall, Spring, and Summer.

Restriction(s):

Must be in the following Major(s): Broadcast and Elect Media, Broadcast and Electronic Media

Must be the following Class(es): Junior, Senior

Prerequisite(s): BRCO 303 or BRCO 370

BRCO 499 Capstone **credit(s): 0**

Comprehensive evaluation of capstone project. Spring.

Restriction(s):

Must be in the following Major(s): Broadcast and Electronic Media

Must be the following Class(es): Senior

Journalism

Director: K. Hill

The Journalism Program cultivates students' interests and techniques in gathering information through research and interviews, and writing for the array of media platforms. Emphasis is placed on the role and responsibilities of journalism within the context of civic and political participation, and the social justice awareness rooted in the University mission. Courses in journalism history, media law and ethics, and press theory form the philosophical foundation for the major and minor. Journalism students, focus on issues of civic and cultural importance with a traditional news stance, but there are ample opportunities for experimentation with the styles of journalism appropriate for magazines, publications with a literary bent, and emerging Internet and social media platforms. Students also hone their visual storytelling skills in courses such as photojournalism and emerging media.

Students pursuing a major or minor in journalism choose from an array of elective courses, including literary journalism, news leadership, media ethics, documentary filmmaking, and sports media.

Most Gonzaga journalism students work for the weekly student newspaper, The Gonzaga Bulletin (gonzagabulletin.com), as writers, editors or photojournalists. Credit toward the Journalism major and minor is available, as well as a stipend for editors, staff writers and photojournalists.

Many journalism students garner journalistic experience in the professional environment through internships, for which academic credit is also available.

B.A. Major in Journalism: 39 Credits

Lower Division

INMD 101 Media Literacy	3 credits
JOUR 110 Journalistic Writing	3 credits
JOUR 210 Civic Journalism	3 credits
JOUR 220 Student Media Writing Lab	1 credit
JOUR 230 Student Media Editing Lab	1 credit
JOUR 270 Photojournalism	3 credits
JOUR 280 Design and Editing	3 credits

Upper Division

INMD 360 Media Law	3 credits
JOUR 310 Public Affairs Reporting	3 credits
JOUR 350 History of Journalism	3 credits
JOUR 370 Emerging Media	3 credits

JOUR 440 Seminar: Media & Democracy	3 credits
JOUR 300-400 level electives	6 credits
JOUR 499 Capstone Project	1 credit

Minor in Journalism: 19 Credits

Lower Division

INMD 101 Media Literacy	3 credits
JOUR 110 Journalistic Writing	3 credits
JOUR 220 Student Media Writing Lab	1 credit
JOUR 270 Photojournalism	3 credits

Upper Division

JOUR 440 Seminar: Media & Democracy	3 credits
JOUR 300-400 level electives	6 credits

Courses:

JOUR 110 Journalistic Writing **credit(s): 3**

An introduction to journalistic-style writing across media platforms, including broadcast journalism and public relations writing.

Fulfills the following degree requirement(s): SOSJ - Block D, Core: Writing Enriched

Equivalent(s): SOSJ 160

JOUR 190 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

JOUR 210 Civic Journalism **credit(s): 3**

Emphasis on the style of journalism that fosters community engagement. Research, reporting and interviewing techniques that focus on news coverage of public organizations and groups that participate in framing public policy. A variety of writing styles will be utilized. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): SOSJ 262

Prerequisite(s): JOUR 110 or SOSJ 160

JOUR 220 Student Media Writing Lab **credit(s): 1**

Course repeatable for 2 credit.

With direction from student newspaper advisers/instructors and editors, students write stories and news reports for The Gonzaga Bulletin and gonzagabulletin.com. Fall and Spring.

Prerequisite(s): JOUR 210 or SOSJ 262

JOUR 230 Student Media Editing Lab **credit(s): 1**

Course repeatable for 2 credit.

With direction from advisers/instructors, students edit news stories for The Gonzaga Bulletin and gonzagabulletin.com. Fall and Spring.

Prerequisite(s): JOUR 110 or SOSJ 160

JOUR 270 Photojournalism **credit(s): 3**

An introduction to the technical, ethical, and creative principles of journalism-based photography and video. Topics include basic camera functions, digital image-editing tools, and the intersection of photojournalism, digital-video, and short documentary filmmaking. Special attention will be given to the professional and ethical considerations of the practice and the unique differences that separate photojournalism from other forms of image capturing. Lab fee. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): SOSJ 261

Prerequisite(s): INMD 101

JOUR 280 Design and Editing **credit(s): 3**

Emphasis on design principles and editing skills for print and online journalistic platforms. Attention also to news values and philosophies. Spring.

Prerequisite(s): JOUR 110 or SOSJ 160

JOUR 290 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

JOUR 310 Public Affairs Reporting **credit(s): 3**

Reporting municipal, county, state, and federal affairs. Open meeting, shield and disclosure laws, law enforcement and the judicial process. Spring.

Prerequisite(s): JOUR 210 or SOSJ 262 or PRLS 310

JOUR 350 History of Journalism **credit(s): 3**

The historical development of the press and journalistic practices in America. The focus is the development of journalistic values such as objectivity, accuracy, balance and legal and ethical issues such as free speech and access to public records. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): INMD 101

JOUR 370 Emerging Media **credit(s): 3**

Students integrate reporting and research with audio, video, photos and text to produce and design multimedia packages in a journalistic context. Students may utilize blogging, podcasting, social media and emerging media techniques. Some focus on analysis of the optimal platforms for presenting journalistic content. Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): SOSJ 367

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): JOUR 110 or SOSJ 160

JOUR 374 Documentary History and Analysis **credit(s): 3**

The course explores documentary film as both a popular art form and as an instrument for constructing social knowledge. From early cinematic experiments to contemporary award winners, students will critically review the evolution of non-fiction filmmaking while analyzing the techniques that documentary filmmakers use to craft their documentaries. The larger

ethical and societal impacts of documentary film will also be explored. Spring.

Fulfills the following degree requirement(s): FILM - Film & Genre, FILM - Film Elective, Core: Fine Arts and Design

Equivalent(s): FILM 451

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): INMD 101

JOUR 390 Directed Study

credit(s): 1-3

Course repeatable for 6 credit.

Topic to be determined by faculty.

JOUR 410 Special Topics

credit(s): 3

Course repeatable for 12 credit.

Course content focuses on emerging issues and topics that relate to journalistic practice and philosophy.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 101

JOUR 420 Literary Journalism

credit(s): 3

The course focuses on writing longer forms of journalism. Content includes a look at the traditions of literary journalism in America, memoir-style nonfiction and using fiction techniques in nonfiction stories. Writing topics are individualized. Fall.

Fulfills the following degree requirement(s): ENGL - Major Elective require, ENGL - Writing, Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): JOUR 110 or ENGL 301 or ENGL 302 or ENGL 303 or ENGL 306 or SOSJ 160

JOUR 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

JOUR 440 Seminar: Media and Democracy

credit(s): 3

Examines the organizational, cultural, technological, and ideological nature of news. Attention is given to theories of the press, the construction of news, news as a form of knowledge, and

the broader social implications of news organizations and practices. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 360

JOUR 470 Documentary Filmmaking **credit(s): 3**

Documentary filmmaking provides an environment in which students experiment with the combination of digital film aesthetics and documentary storytelling to produce an original short non-fiction work. The course includes examination of ethical issues in documentaries, the use of animation and interactivity in film and the role of documentary work in different cultures. Lab fee. Spring.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture

Equivalent(s): FILM 460

Prerequisite(s): VART 170 or JOUR 270 or BRCO 303

JOUR 485 Media Ethics **credit(s): 3**

Journalistic ethical issues ranging from fairness, balance and conflicts of interest to sensationalism will be discussed in depth. Overview of theories of leading historical and contemporary philosophers through the lens of relevance to contemporary media. Emphasis on use of ethical decision-making models.

Prerequisite(s): INMD 101

JOUR 490 Directed Study-Special Project **credit(s): 1-4**

Course repeatable for 6 credit.

Tutorial or a project proposed to faculty. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Journalism, Journalism

Must be the following Class(es): Junior, Senior

JOUR 494 Independent Study **credit(s): 1-3**

Course repeatable for 6 credit.

In-depth pursuit of a topic proposed to faculty. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Journalism, Journalism

Must be the following Class(es): Junior, Senior

JOUR 497 Internships **credit(s): 0-6**

Course repeatable for 6 credit.

Professional work experience in journalism. Possibilities include print and online journalistic organizations and magazines. Fall, Spring, and Summer.

Restriction(s):

Must be in the following Major(s): Journalism, Journalism

Must be the following Class(es): Junior, Senior

Prerequisite(s): JOUR 210 or SOSJ 262

JOUR 499 Capstone Project

credit(s): 1

Students demonstrate command of journalistic practices and philosophies in a comprehensive project and essay exam. Spring.

Restriction(s):

Must be in the following Major(s): Journalism

Must be the following Class(es): Senior

Public Relations

Directors: C. McMahon and J. Collett

Associate Professor: C. McMahon

Assistant Professor: J. Collet

Lecturer: R. Prindle

The Public Relations Program combines study of communication theory, speech writing and delivery, and corporate strategies with journalistic expertise. Students learn to skillfully manage communication between organizations and the people they serve. Internships with local, national and international organizations provide hands-on experience in campaign planning, corporate communication, and nonprofit organization advocacy.

As part of the Public Relations coursework, students work directly with a local organization in creating a comprehensive public relations plan and media kit. As part of the senior capstone course, public relations students develop a portfolio, articulate a philosophical statement of communication, and write a thesis.

Public relations skills also enhance other degrees. Political Science students interested in honing their political campaigning skills, students in the humanities with interests in promoting and publicizing the arts, and business students seeking to complement marketing and management concentrations often complete a Public Relations minor.

B.A. Major in Public Relations: 39 credits

Lower Division

INMD 101 Media Literacy	3 credits
JOUR 110 Journalistic Writing	3 credits
PRLS 260 Public Relations Principles	3 credits

Upper Division

INMD 360 Media Law	3 credits
PRLS 310 Writing for Public Relations	3 credits
PRLS 340 Public Relations Speech Writing and Delivery	3 credits
PRLS 360 Strategic Communications	3 credits
PRLS 450 Organizational Issues	3 credits
PRLS 460 Public Relations Campaign	3 credits
PRLS 470 Public Relations Internship*	3 credits
PRLS 480 Public Relations Capstone	3 credits
BRCO, JOUR, PRLS 300-400 Level Electives	6 credits
PRLS 499 Thesis Conferencing	0 credits

*A 300-400 level, three-credit Integrated Media Department elective shall be substituted for an internship if the student does not meet a minimum cumulative 3.00 GPA prior taking the course.

Minor in Public Relations: 18 credits

Lower Division

INMD 101 Media Literacy	3 credits
JOUR 110 Journalistic Writing	3 credits
PRLS 260 Public Relations Principles	3 credits

Upper Division

PRLS 310 Writing for Public Relations	3 credits
PRLS 360 Strategic Communications	3 credits
BRCO, INMD, JOUR, or PRLS 300-400 Level Elective	3 credits

Courses:

PRLS 260 Public Relations Principles credit(s): 3

Theories and principles underlying public relations practice. The history and development of the field, responsibilities and duties, ethics, law, and social responsibility, and survey of practice and techniques. Fall and Spring.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): INMD 101 (or concurrent)

PRLS 310 Writing for Public Relations credit(s): 3

Theory and models for communication in an array of forms common to PR including utilization of emerging technologies and an emphasis on understanding the target audience. Fall, Spring, and Summer.

Fulfills the following degree requirement(s): BU - Marketing conc Req, Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): Promotion, Public Relations, Public Relations

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PRLS 260(and JOUR 110 or SOSJ 160)

PRLS 340 Public Relations Speech Writing and Delivery credit(s): 3

A focus on the variety of public address forms common to the public relations profession, including writing speeches for executives and public figures, and coaching for public and media appearances. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Public Relations, Public Relations

Must be the following Class(es): Junior, Senior

Prerequisite(s): PRLS 310

PRLS 356 Sports Media credit(s): 3

The course content examines the roles of public relations practitioners and journalists through the lens of athletics organizations and sports in society. Students will engage in sporting events

coverage that focuses on an array of writing styles, social media strategies, media relationships with sports organizations and athletes, and an in-depth understanding of all sports competitions, primarily those at the collegiate and professional levels. Fall.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 101 and JOUR 110

PRLS 360 Strategic Communications

credit(s): 3

Strategic roles and theory-based planning concepts, integrated marketing communication, and analysis of case studies that review communication theory and professional practice. Fall and Spring.

Fulfills the following degree requirement(s): Leadership elective

Restriction(s):

Must be in the following Major(s): Public Relations, Public Relations

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PRLS 260

PRLS 410 Special Topics

credit(s): 1-4

Course repeatable for 12 credit.

Course content focuses on emerging issues and topics that relate to public relations practice and philosophy.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INMD 101

PRLS 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

PRLS 450 Organizational Issues for Public Relations

credit(s): 3

A study of the changing nature of the organizational public relations role, including contemporary theoretical models and expanding roles in communication, leadership, and organizational culture. Emphasis on consulting practices, leadership theory, strategies and corporate ethics. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Public Relations, Public Relations

Must be the following Class(es): Junior, Senior

Prerequisite(s): PRLS 310 or PRLS 360

PRLS 460 Public Relations Campaign **credit(s): 3**

Applied work for an actual client based on theories of organizational communication, including a campaign plan. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Public Relations

Must be the following Class(es): Junior, Senior

Prerequisite(s): PRLS 310

PRLS 470 Public Relations Internship Course **credit(s): 3**

Pre-professional work experience in public relations with a PR agency, non-profit or organization. 120-140 hours required with onsite supervision by a public relations practitioner. Instructor supports securing an internship, and all internships are to be pre-approved by the instructor. Includes attendance at regular class sessions. Registration requires a minimum cumulative 3.0 G.P.A. Fall, Spring, and Summer.

Restriction(s):

Must be in the following Major(s): Public Relations

Must be the following Class(es): Junior, Senior

Prerequisite(s): PRLS 310 and PRLS 360

PRLS 480 Public Relations Capstone **credit(s): 3**

This course involves the completion of a public relations reflection project that integrates and applies prior course work and field work into academic research of contemporary issues in the public relations profession. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Public Relations

Must be the following Class(es): Senior

Corequisite(s): PRLS 499

Prerequisite(s): PRLS 310 and PRLS 360

PRLS 490 Directed Study **credit(s): 0-3**

Course repeatable for 6 credit.

Individualized study of an issue related to the public relations profession. Fall, Spring, and Summer.

Prerequisite(s): PRLS 310

PRLS 497 Elective Internship **credit(s): 0-3**

Course repeatable for 6 credit.

Pre-professional work experience in public relations with a PR agency, non-profit or organization. All internships are to be approved by the instructor prior to start date. Virtual internships are allowed with instructor permission. Fall, Spring, and Summer.

Restriction(s):

Must be in the following Major(s): Public Relations, Public Relations

Must be the following Class(es): Junior, Senior

Prerequisite(s): PRLS 310

PRLS 499 Thesis Conferencing

credit(s): 0

Individual thesis review sessions with PRLS 480 instructor. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Public Relations

Must be the following Class(es): Senior

Corequisite(s): PRLS 480

Prerequisite(s): PRLS 310, minimum grade: D and PRLS 360, minimum grade: D

Interdisciplinary Arts

Program Director: Suzanne Ostersmith

The program offers one minor:

Minor in Interdisciplinary Arts

The study of interdisciplinary arts expands a student's problem solving, critical reflection and innovative thinking through combining the strengths of theatre, dance, visual arts, and music. The Interdisciplinary Arts minor gives students a solid foundation and knowledge in these art forms and integrates the arts in a new and exciting way. This minor also allows students, such as those in STEM (Science, Technology, Engineering, Math) majors, to integrate valuable arts experience into their skill set, increasing their creative capacity and expressiveness.

This unique minor offers arts-based research skills, focusing less on product and more on the creative process. A student will complete the minor being able to think creatively, innovatively and be confident in their ability to tackle any problem from a number of angles.

Students who wish to focus their studies in either Theatre or Dance should visit the Theatre and Dance Department page for more information on the Theatre Arts major/minor and the Dance major/minor.

Minor in Interdisciplinary Arts: 20-25 credits

Required Courses:

DANC 165 Interdisciplinary Arts	3 credits
DANC 285 Interdisciplinary Arts E-portfolio (recommended fall sophomore and junior year)	0 credits
One of the following options:	2-3 credits
DANC 455 Dance Senior Seminar	
THEA 498 Senior Project	
VART 499 Senior Thesis (Art majors only, spring of senior year)	

Three lower division courses: 8-10 credits one each in Theatre, Dance, and Visual Arts.

Theatre		3-4 credits
THEA 100 Introduction to Theatre	3 credits	
THEA 111 Acting	4 credits	
THEA 132 Stagecraft	3 credits	
THEA 134 Costume	3 credits	
THEA 237 Costume and Fashion Design	3 credits	
Dance		2-3 credits
THEA 120 Voice and Movement	3 credits	
DANC 115 Ballet I	2 credits	

DANC 105 Jazz Dance I	2 credits	
DANC 110 Contemporary/Modern Dance I	2 credits	
DANC 205 Jazz Dance II	2-3 credits	
DANC 210 Contemporary/Modern Dance II	2-3 credits	
DANC 215 Ballet II	2-3 credits	
Visual Arts		3 credits
VART 101 Drawing I	3 credits	
VART 112 Design Fundamentals	3 credits	
VART 141 Ceramics I	3 credits	
VART 190 Art Survey: Prehistoric to Medieval	3 credits	
VART 191 Art Survey: Renaissance to Modern	3 credits	
Music		3-4 credits
*requires prior approval of Interdisciplinary Arts Program Director		
Choose one of the following options:		
MUSC 161 Music Theory I	3 credits	
OR		
a combination of 2 credits each in applied lessons and large ensembles:		
MUSC 131 Applied Lessons	2 credits	
AND		
MUSC XXX Large Ensembles	2 credits	
One upper division course in Theatre, Dance, or Visual Arts: 3-4 credits		
Theatre		
THEA 216 Acting II	4 credits	
THEA 239 Lighting Design	3 credits	
THEA 253 Directing I	3 credits	
THEA 332 Scenic Design	4 credits	
Dance		
DANC 315 / DANC 415 Ballet III	3 credits	
DANC 205 / DANC 405 Jazz Dance III	3 credits	
DANC 300 Musical Theatre Dance	3 credits	
DANC 310 / DANC 410 Modern Dance III	3 credits	
DANC 465 Choreography	3 credits	
Visual Arts		
VART 201 Drawing II	3 credits	
VART 221 Painting I	3 credits	
VART 241 Ceramics II	3 credits	
VART 350 Beginning Printmaking	3 credits	
VART 351 Beginning Screen Printing	3 credits	
One of the following history courses: 1 credit		
THEA 200 Theatre History	3 credits	
DANC 270 Dance History	3 credits	
VART 394 Special Topics in Art History	3 credits	
VART 395 Art in the 19th Century	3 credits	
VART 396 Art in the 20th Century	3 credits	
MUSC 171 Music in the Humanities	3 credits	
MUSC 175 Jazz History	3 credits	
MUSC 249 World Music	3 credits	
MUSC 250 Music in America	3 credits	

Production experience in Theatre or Dance:

1 credit

One of the following courses:

THEA 260 Production Lab	1 credit
THEA 261 Performance Lab	1 credit
DANC 360 Dance Company Lab	1 credit

See the Undergraduate catalog department sections for individual course descriptions.

International Studies

Chairperson: Torunn Haaland

The department offers one major and one minor:

Bachelor of Arts, International Studies major
(required Regional and Thematic concentrations)

Minor in International Studies
(required Regional or Thematic concentration)

Gonzaga University's International Studies is an interdisciplinary program that focuses on the interconnected and interdependent processes shaping the contemporary world. The International Studies program promotes the College of Arts and Sciences' mission to engage in holistic, active learning and to connect our students' passions and their academic disciplines through innovative and integrative educational experiences. While students will acquire historical and cultural knowledge, they will build linguistic proficiency relevant to a geographically defined region, and develop an understanding of the larger structures and mechanisms that organize the world.

Given its multidisciplinary orientation program encourages students to examine local and global issues through a diverse set of perspectives and methodologies. Students who major or minor in International Studies learn to reflect on the socio-economic and cultural position from which they engage local and global communities. The program challenges students to assume the ethical and social responsibilities associated with global citizenship, to cultivate global perspectives and enable global engagement, and to foster an ability to analyze and engage insightfully with local and global cultures to help create a more sustainable, participatory, and equitable world.

Mission Statement:

The primary objective of the International Studies program is to develop students' capacity to recognize the increasingly interdependent nature of today's world and to assess the processes, systems, and structures that interconnect local and global communities. To this end, students must become knowledgeable about global systems as well as regional realities. They must also learn to examine complex issues through the application of interdisciplinary theories and methodologies and to communicate effectively the results of their independent research. Students are further expected to achieve proficiency in a language that augments their regional studies and are strongly encouraged to participate in experiential learning, especially through internships and study abroad/away programs. Ultimately, the program aims to prepare students to act and interact in social and professional settings with the intercultural awareness and social responsibility of global citizens.

The International Studies major and minor are composed of four main components: foundational courses; a Regional concentration; a Thematic concentration; and proficiency in a language spoken in the student's selected Regional concentration. Students should choose their language and concentrations with assistance from a faculty advisor to ensure a timely and appropriate degree completion.

B.A. Major in International Studies: 42-58 credits*

*(~depends upon starting point of required language study)

International Studies Foundational Courses	18 Credits
INST 201 Introduction to International Studies	3 credits
ECON 201 Microeconomics	3 credits
POLS 104 Introduction to International Relations [^]	3 credits
SOCI 101 Introduction to Sociology <i>w/Global Focus</i> *	3 credits
INST 432 CIS Global Migration	3 credits
Select one of the following two courses:	3 credits
HIST 102 The West and the World	
HIST 112 World History	

**SOCI 101 Introduction to Sociology with a Global Focus will be offered regularly. Students must consult their advisor to make sure that they register for the designated section. In exceptional cases of unresolvable scheduling conflicts or if the course is not offered, other sections of SOCI 101 may be accepted for the completion of this requirement.*

[^] "In exceptional cases of unresolvable scheduling conflicts, this requirement may with prior approval from the INST Chair be fulfilled by POLS 103 Introduction to Comparative Politics.

Language Requirement for pursuing a major in International Studies:

All International Studies majors are required to take (6) credits at the 300-level or higher in a modern language other than English. Students may need to take language courses at the 100 or 200 level, depending on their previous studies of the language and where they are placed in the sequence of courses.

Language Requirement	6 credits
300-level language courses	

NOTE: If a given language is only offered through the 202 level, students may, with prior approval from the International Studies Department Chair, complete their upper-division language courses abroad or at another approved domestic institution. If no such alternative is feasible, students may, with the Department Chair's *prior* approval, take two semesters of a second language that is relevant to their course of study. Transfer students who have not previously studied a language will be required to complete courses through the 202 level.

Required concentrations:

Students must select two concentrations **18 credits**

one Regional concentration and one Thematic concentration:

Regional Concentrations (select one Region) 9 credits

- Africa
- Asia
- Europe
- Latin America
- Middle East

Thematic concentrations (select one Theme) 9 credits

- International Political Economy
Interconnections between political and economic forces; their influences of social, material resource distribution.
- War and Peace
Militarized conflict context and causes and how people, states, civilizations are affected.
- Global and Intercultural Connections
Examines aspects of global issues, from multiple views, comparisons, analyze intercultural connection framework.

Select **nine (9)** credits from **one Regional** concentration and **nine (9)** credits from **one Thematic** concentration from the following lists:
(within each concentration, select courses from at least two different departments, if available)

Regional Concentration (select from one region): **9 credits**

Africa (Arabic, French languages)

- INST 311 African History Through Film
- INST 340 African Nationalism
- INST 341 African Environmental History
- INST 363 Colonial Africa
- INST 364 Health and Healing in Africa
- INST 390 African Politics and Development
- INST 399 Region Studies Abroad

Asia (*Chinese, Japanese, Tagalog languages*)

- INST 325 Post-Soviet Russia and China
- INST 330 Religions of Asia
- INST 333 Buddhism
- INST 355 The Politics of Eurasia
- INST 360 Japanese Culture I
- INST 361 Japanese Culture II
- INST 373 Modern East Asian Society
- INST 375 Modern Japan
- INST 384 Foundations of East Asian Civilization
- INST 389 Politics of the Pacific Rim
- INST 396 Chinese Philosophy
- INST 399 Region Studies Abroad
- INST 497 Internship in International Studies

Europe (*French, German, Italian, Spanish languages*)

- INST 331 World War II
- INST 334 Russia and USSR since 1945
- INST 337 The Stalin Era
- INST 339 French Cinema
- INST 348 20th-Century Northern Ireland
- INST 357 Italian Political System (Florence)
- INST 393 New Europe
- INST 395 Comparative European Politics
- INST 397 Nazi Germany
- INST 399 Region Studies Abroad
- INST 415 Spanish Cinema
- INST 416 The Italian Cinema
- INST 497 Internship in International Studies

Latin America (*Spanish language*)

- INST 315 Latin American Society
- INST 316 Latin American Pre-Hispanic, 19th Century Literature
- INST 369 Revolutions in Modern Latin America
- INST 372 Colonial Latin America
- INST 377 Mexico

INST 385 Latin American Politics
INST 399 Region Studies Abroad
INST 406 Narrative Fiction in Spanish America
INST 414 Latin American Cinema
INST 497 Internship in International Studies

Middle East (*Arabic language*)

INST 367 Arab-Israeli Conflict
INST 368 Islamic Civilization
INST 399 Region Studies Abroad
INST 497 Internship in International Studies

Thematic Concentration (*select from one theme*):

9 credits

International Political Economy

ECON 202 Macroeconomics
INST 343 Global Economic Issues
INST 344 International Organizations
INST 345 International Law
INST 366 Topics: International Political Economy
INST 497 Internship in International Studies
INST 370 Model UN

War and Peace

INST 344 International Organizations`
INST 345 International Law`
INST 379 Topics: War and Peace`
INST 397 Nazi Germany`
INST 497 Internship in International Studies

Global and Intercultural Connections

INST 304 Interreligious Dialogue
INST 305 Religion and Violence
INST 350 International Ethics
INST 371 The Modern Pacific World
INST 378 Topics: Global and Intercultural Connections
INST 497 Internship in International Studies

Minor in International Studies: 18-23 credits*

**(~depends upon starting point of required language study)*

INST 201 Introduction to International Studies 3 credits

Select two of the following (depending on area of concentration): 6 credits

ECON 201 Microeconomics

POLS 104 Introduction to International Relations^

SOCI 101 Introduction to Sociology w/Global Focus*

HIST 102 The West and the World

HIST 112 World History

^In exceptional cases of unresolvable scheduling conflicts, this requirement may with prior approval from the INST Chair be fulfilled by POLS 103 Introduction to Comparative Politics.

Language Requirement for pursuing a minor in International Studies:

Students starting a language not studied previously are required to complete language courses 101 and 102. Students continuing in the study of a second language from high school are required to complete (or demonstrate proficiency at) the 201 level.

Required Concentration:

Select a Regional Concentration **OR** a Thematic Concentration 9 credits

Regional Concentration

Africa

Asia

Europe

Latin America

Middle East

Thematic concentration

International Political Economy

Interconnections between political and economic forces; their influences of social, material resource distribution.

War and Peace

Militarized conflict context and causes and how people, states, civilizations are affected.

Global and Intercultural Connections

Examines aspects of global issues, from multiple views, comparisons, analyze intercultural connection framework.

Select **nine** credits from **one Regional** concentration **OR** **nine** credits from **one Thematic** concentration:

(within each concentration, select courses from at least two different departments, if available)

See concentration course lists above, in the International Studies major.

NOTE: Courses taken abroad or at other domestic institutions must be pre-approved by the Department Chair to count toward degree requirements. Students may double-count a maximum of three courses between International Studies and degree requirements for a second major or minor. Electives may not be used to fulfill any other degree requirement.

Courses:

INST 190 Directed Study **credit(s): 1-4**

Topic to be determined by faculty.

INST 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

INST 201 Introduction to International Studies **credit(s): 3**

This course provides an introduction to the multi-disciplinary field of International Studies. Required for all International Studies majors and minors. Recommended for any first or second year student from any program of study with an interest in international affairs.

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

INST 285 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Selected International Studies topics of current and special interest.

INST 290 Directed Study **credit(s): 1-3**

Topic to be determined by faculty.

INST 302 Topics: International Differences **credit(s): 3**

Course repeatable for 9 credit.

Special topics which are offered on occasion as full semester courses by faculty members from the various disciplines which make up the International Studies Program. Such courses focus on subjects of current or special interests which are not normally a part of the regular curriculum and focus on international differences (e.g., cultural, political, economic) and particular regions of the world. (topic must pertain to region of Major/Minor Study).

INST 303 Topics: International Interactions **credit(s): 3-4**

Course repeatable for 12 credit.

Special topics which are offered on occasion as full semester courses by faculty members from the various disciplines which make up the International Studies Program. Such courses focus on subjects of current or special interests which are not normally a part of the regular curriculum and focus on international interactions among nations and/or organizations, international law, treaties, etc.

INST 304 Interreligious Dialogue **credit(s): 3**

Investigates the imperative of Christianity and other world religions to engage in respectful dialogue and mutual understanding, exposes pressing practical issues such as religious violence and divisive ideologies, and proposes a comparative theological perspective highlighting spiritual engagement, moral responsibility and reconciliation.

Fulfills the following degree requirement(s): RELI - Practical Theology, SOSJ - Block D, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 334, SOSJ 365

INST 305 Religion and Violence **credit(s): 3**

In today's world of alarming growth in sectarianism, radicalization, and terrorism across many continents, does religion simply give rise to human division or, is it- as some say - peaceful? This course not merely studies religious violence, it responds to it and encourages Gonzaga students to think with and beyond a variety of disciplines to develop their own skills of interpretation. Offered every year.

Fulfills the following degree requirement(s): INST - with Global Focus, INST - Gbl/Incl Theme content, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 366

INST 310 Third World Development **credit(s): 3**

Focus on political development in the Third World. After examining the making of the Third World through imperialism and colonialism, analyzes key political institutions (the state, political parties, the military), international economic context of dependency and vulnerability. Several case studies follow a common analytical framework to trace experiences with democratic and authoritarian rule and assess the underlying causes of democratic success and failure.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): POLS 359, SOSJ 329

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 311 African History Through Film **credit(s): 3**

This course explores African history by examining the roles that Africans have played historically as creators, audiences, and subjects of films. Using both film studies and African studies

concepts, the course interrogates African film as both artefacts and interpretations of the past.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & National Identity, HIST - Non-West/Dev Area, INST - Africa Region content, Core: Global Studies

Equivalent(s): HIST 342

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): HIST 102

INST 315 Latin American Society **credit(s): 3**

An overview of Latin American development. Several socio-economic factors are examined. Development issues are broadly conceptualized within economic, demographic, and cultural dimensions. These variables are viewed as overlapping forces influencing development. International Differences elective.

Fulfills the following degree requirement(s): HIST - Latin American History, HIST - Non-History elect

Equivalent(s): SOCI 322

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 316 Latin Amer Pre-Hisp-19th Century Literature **credit(s): 3**

An introduction to the literature of the Spanish-speaking Americas. The texts students will read range from pre-Hispanic times until the end of the nineteenth century. During the semester, students will explore the various voices that arise from the Americas and how they present themselves in different genres such as: diary, chronicle, letter, essay, poetry, short story, and novel. (Taught in Spanish). Fall, alternate years.

Fulfills the following degree requirement(s): HIST - Non-History elect

Equivalent(s): SPAN 307, SPAN 323

Prerequisite(s): SPAN 302

INST 317 Latin American 19th-21st Century **credit(s): 3**

Introduction to the major trends and authors of Latin America during the contemporary period, starting at the end of the 19th Century and concluding with present-day works. (Taught in Spanish). Spring, alternate years.

Fulfills the following degree requirement(s): HIST - Non-History elect, SPAN - Literature

Equivalent(s): SPAN 308, SPAN 324

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): SPAN 302 or SPAN 320

INST 320 Resistance, Struggle, and Power **credit(s): 3**

Communication is the central means for contesting and reconfiguring structural forms of power relations among social groups, and this class focuses on power dynamics and imbalances across social institutions such as law, education, medicine, economics, media, and religion. Students engage the concepts of hegemony (the production of consent for dominant power relationships) and counter-hegemony (the struggle against dominant social arrangements). As such, the course invites students to consider the interplay of communication, culture, and social

institutions in maintaining, resisting, and transforming the persistent inequalities of power and disproportionate distribution of cultural and political capital. Fall.

Equivalent(s): COMM 320

Prerequisite(s): COMM 210, minimum grade: C and COMM 220, minimum grade: C (and COMM 275, minimum grade: C or COMM 285, minimum grade: C)

INST 325 Post-Soviet Russia and China

credit(s): 3

Focus on the pre-1985 Soviet political system; how Gorbachev's six-year reform program led to the unraveling of the Soviet Union; and the difficult transition to democracy and a market economy in post-Soviet Russia. Similarly, study contrasts of Maoist China with the uneasy mixture of economic reform and political repression coexisting in China today.

Equivalent(s): POLS 355

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 326 Global Gender Regimes

credit(s): 3

Compares the lives of women around the world: their public and private roles and responsibilities, positions in government, the economy, and the private sphere. Seeks to explain women's status differences in various regions and societies by looking at the influence of culture, religion, economics, and politics.

Fulfills the following degree requirement(s): Women's & Gender Studies

Equivalent(s): POLS 363, WGST 342

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 330 Religions of Asia

credit(s): 3

This survey course introduces the following Asian religions: Hinduism, Buddhism, Confucianism, Daoism, and Shinto. We examine the teachings of these Asian traditions in the context of their diverse cultural and historical settings. We also consider how these Asian religions have adapted to fit the contemporary world and how they have influenced popular culture. Offered every semester.

Fulfills the following degree requirement(s): RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 259

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 332 Politics of Space and Place

credit(s): 3

Everyday encounters with physical surroundings guide our orientations to the world. As we wander city streets, shopping malls, stadiums, nature preserves, sacred sites, restaurants, monuments, museums, and classrooms, we examine how we move in, and are moved by the material arenas we share. Spatial organization and built environments inform our habits of perception, determine the meaning of a particular place, accent what is worth attention and what might be overlooked, and reaffirm dominant norms and power relationships in public culture. Charts, maps, apps, and other navigational tools dictate where and how we move, and how we understand our roles within a given space. Featuring the experiential dimensions of

rhetoric and communication, this course presses us to consider how material spaces and places construct everyday geographies. Spring.

Equivalent(s): COMM 330, ENVS 328

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): COMM 210, minimum grade: C(and COMM 275, minimum grade: C or COMM 285, minimum grade: C)

INST 333 Buddhism **credit(s): 3**

Introduction to Buddhism examines the historical and cultural contexts in which Buddhist beliefs and practices were developed in Asia and how they spread to the West. We also study how, throughout history, Buddhism has adapted to a changing world. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 264

INST 334 Russia and USSR Since 1945 **credit(s): 3**

This course may be considered an autopsy on the Soviet empire. Its themes include: "developed" socialism under Stalin's successors; the rise and decline of the Soviet economy; the Cold War; the Soviet Union's nationalities issues; the impact of Gorbachev's reforms; and the collapse of the USSR. The course will also consider the domestic and foreign policy challenges faced by Yeltsin and Putin after 1991.

Equivalent(s): HIST 334

Prerequisite(s): HIST 102 or HIST 112

INST 337 The Stalin Era **credit(s): 3**

This course focuses on the dictatorship of Josef Stalin from the late 1920s until his death in 1953. Its main topics include: Stalin's consolidation of personal rule; the impact of crash industrialization and agricultural collectivization; Stalinist terror; the Soviet experience in World War II; the worldwide influence of the Soviet model after the war; and the legacy of Stalinism in Russia.

Equivalent(s): HIST 337

Prerequisite(s): HIST 102 or HIST 112

INST 339 Contemporary French Cinema **credit(s): 3**

A study of French cinema as it has evolved in the last two decades. The films viewed will be used as a means to encourage reflection on the history, ideas and values that have gone into the making of modern France. The course is offered in English and French in separate sections. For students who take the English section of the course through the INST cross-listing, there is no French pre-requisite. Spring.

Equivalent(s): FREN 331

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): FREN 202-399, 1 course

INST 340 African Nationalism **credit(s): 3**

This course will examine African countries' internal histories as they transitioned from colony to nation from the 1940s through the 1990s. While not ignoring the roles played by colonial

masters and indigenous elites, the course's main focus is on how ordinary men and women shaped these processes.

Equivalent(s): HIST 341

INST 341 African Environmental History **credit(s): 3**

This course explores the long-term history of Africans' dynamic interactions with their environments by interrogating how African environmental realities and Africans' conceptions of the environment shaped broader political, social and economic histories. Beginning in the precolonial period, we will trace how climatic variation, political and economic changes in the colonial period, and post-independence priorities transformed Africans' relationships with their environments.

Equivalent(s): ENVS 343, HIST 345

INST 342 International Relations **credit(s): 3**

Theory and practice of the international political system and the behavior of the participating nations. Taught only at Gonzaga-in-Florence.

Equivalent(s): POLS 351

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 343 Global Economic Issues **credit(s): 3**

This course is a presentation of a broad range of global economic issues and policies relevant to a number of disciplines including business, political science, and international studies. Topics include: why nations trade, international trade and economic growth, protectionism, discriminatory trade policies, the foreign exchange market, factor mobility, and comparative economic systems. Fall and Spring.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq

Equivalent(s): ECON 311

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201 or ECON 270H or ECON 200 or ECON 207H

INST 344 International Organizations **credit(s): 3**

Examines why international organizations exist and whether they make a difference in solving global problems. Questions to be addressed include: Where does their power come from? Why are some designed differently than others? Why do countries use international organizations to achieve their goals? Are they effective? Practical knowledge about the major ones such as the U.N., European Union, World Trade Organization, and NGOs. Their successes and failures about specific global problems such as conflict, human rights and development.

Fulfills the following degree requirement(s): INST - Pol Econ Theme content

Equivalent(s): POLS 376

Restriction(s):

Must be the following Class(es): Junior, Senior

INST 345 International Law **credit(s): 3**

International law with an international relations focus. How and why international treaties and other sources of international laws are created; actors who create, interpret, and enforce them.

Structures for increasing compliance and their effectiveness. Variety of major international treaties and laws: war, sea, trade, and human rights.

Equivalent(s): POLS 371

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 346 Parliamentary Government

credit(s): 3

Parliamentary or Cabinet government contrasted with the American government. Focus on disciplined parties, prime ministers, civil servants, and elected politicians, written and unwritten constitutional rules, parliamentary supremacy and rights-based politics. Usually features Canada but draws examples from Great Britain, New Zealand, India, and Australia.

Equivalent(s): POLS 360

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 347 International Treaties

credit(s): 3

Examines international treaties: why they exist, origins of their power, different designs, uses made of them, effectiveness. Covers such examples as NATO, NAFTA, Kyoto Protocol. Their successes and failures about specific problems. International Interactions elective.

Equivalent(s): POLS 377

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 348 20th Century Northern Ireland

credit(s): 3

This course explores the troubled history of Northern Ireland from the perspective of the two communities that live within it, as well as that of the British and Irish governments. It examines key events in Northern Ireland's recent history such as Bloody Sunday, internment, the murder of Lord Mountbatten, the hunger strikes, the Enniskillen and Omagh bombings, and the steps to the Peace Process. The course emphasizes how peace has been achieved in the wake of the "Troubles" as it examines whether the Good Friday Agreement can offer lessons to other conflict zones around the world.

Equivalent(s): HIST 322

Restriction(s):

Must be the following Class(es): Junior, Senior

INST 350 International Ethics

credit(s): 3

The moral structure of the international community in the context of problems such as war, foreign aid, and transnational migration.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 453

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

INST 351 Politics of Social Memory

credit(s): 3

The ways we remember our collective past influence our present and shape our futures. This course examines how we rhetorically construct and struggle over social memory through public remembrances of historical events via war memorials, film and documentary, commemorative

celebrations, reenactments, monuments, and museum exhibits. Students extend rhetorical and visual theoretical concepts and methods to evaluate sites of public memory and the social and cultural politics shaping the construction of memory. Fall.

Equivalent(s): COMM 350

Prerequisite(s): COMM 210, minimum grade: C and COMM 220, minimum grade: C (and COMM 275, minimum grade: C or COMM 285, minimum grade: C)

INST 355 The Politics of Eurasia credit(s): 3

We will begin by developing our understanding of democracy and then proceed to explore the political, economic and social development of several countries of Central and Eastern Europe, Russia and Central Asia over time. What explains the various fates of the countries in this region? Political culture/history? Political agency? Proximity to "the West" and diffusion of norms?

Equivalent(s): POLS 369

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 356 The U.S. in the World credit(s): 3

This course will introduce you to the history of the United States in its global context. In order to situate the United States within its world, this course explores the interconnections between domestic beliefs, national policy, and international events.

Equivalent(s): HIST 368

Prerequisite(s): HIST 102 or HIST 112

INST 360 Japanese Culture I credit(s): 3

This course is designed to introduce students to fundamental Japanese culture. Some of the areas covered by this course will be human relations at work and in school, etiquette, customs, traditions and social issues. (This course will be taught in English).

Equivalent(s): JPNE 350

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 361 Japanese Culture II credit(s): 3

This course focuses on Japanese values, attitudes and behaviors. The students will learn strategies for communication with Japanese people. (This course will be taught in English).

Equivalent(s): JPNE 351

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 362 Introduction to Chinese Culture credit(s): 3

This course is designed thematically and aims to acquaint students with important aspects of Chinese culture. The course will help students better understand modern China, which is shaped by five thousand years of tradition and interaction with the world. Topics include: contemporary china, brief history, religion and philosophy, and art and literature. The course assumes no previous knowledge of China or the Chinese language and will be taught in English.

INST 363 Colonial Africa credit(s): 3

This course examines the colonial period through the lived realities of Africans themselves. In particular, it considers the ways in which African and colonial systems of economics, politics,

gender, and community were brought into dynamic tension during the decades of colonial rule.

Equivalent(s): HIST 343

INST 364 African Health and Healing credit(s): 3

This class interrogates how African understandings of health and practices of healing transformed from the precolonial through the post-independence periods. In particular, we will study the interrelationship between health and politics in African thought, the integration of western biomedicine into African systems of healing, and the changing disease landscape of capitalism, colonialism, and globalization.

Equivalent(s): HIST 344

INST 366 Topics International Political Economy credit(s): 3

Course repeatable for 9 credit.3 time.

This course will examine questions pertinent to International Political Economy according to the criteria for inclusion in the "International and Political Economy" courses.

Equivalent(s): POLS 373

INST 367 Arab-Israeli Conflict credit(s): 3

Why is there an Arab-Israeli conflict? The question is much-discussed but not very often answered. Comprehensive effort to understand that question as well as the intense political debates surrounding it. Interdisciplinary, touching on the historical, political, and sociological origins and trajectory of the conflict. Spring.

Fulfills the following degree requirement(s): INST - Mid East Region content, RELI - Contemporary Issues

Equivalent(s): POLS 373

INST 368 Islamic Civilization credit(s): 3

Introduction to the history of Islamic civilization centering on the relationship of religion to society and culture; the origins of Islam; Islamic belief and practice; Islam, politics, and society; fine arts and intellectual developments; and Islam in the modern world. Offered every semester.

Fulfills the following degree requirement(s): RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 253

INST 369 Revolutions in Modern Latin America credit(s): 3

This course examines the origins, emergence, process, and consequences of major Latin American social and political revolutions in the twentieth century. It will investigate a variety of types of revolutions including different urban and rural movements, as well as groups that sought radical change from high politics to the grass roots level.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): HIST 382

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 370 Model United Nations credit(s): 3

Course repeatable for 9 credit.

This course is designed to enhance the student delegates' achievement of the learning objectives listed above through participation in simulations of various committees and other bodies of the United Nations. Through brief lectures, individual research and writing projects,

in-class simulations, and participation in the National Model United Nations conference, students will gain an enhanced knowledge of global issues, a deeper understanding of what motivates state action, and an understanding of which factors facilitate or hinder cooperation. Students will also gain valuable writing, speaking, negotiating, and diplomatic skills. Enrollment by instructor permission only. Spring.

Equivalent(s): POLS 379

Restriction(s):

Must not be the following Class(es): Freshman

INST 371 The Modern Pacific World credit(s): 3

This course brings together the histories of Asia, the Americas, and Oceania since the 18th century by examining how human migration in and throughout the Pacific region shaped and reshaped it over time. Investigating sojourners, merchants, laborers, soldiers, imperial administrators, colonial subjects, women, and business elites allows us to understand changes in economic exchange, political influence, geographic knowledge, racial beliefs, the rise and fall of empires, and the era of globalization.

Equivalent(s): HIST 371

INST 372 Colonial Latin America credit(s): 3

A survey of colonial Latin America that examines the contact, conflict, and accommodation among Europeans, Native Americans, and Africans that shaped colonial Latin America.

Fulfills the following degree requirement(s): HIST - Latin American History, HIST - Race&Ethnic Communication NonW, NTAS - elective

Equivalent(s): HIST 380, NTAS 341

INST 374 China Past and Present credit(s): 3

This course is a focused survey of Chinese history from the Shang Dynasty (c. 1600 B.C.) up to the present. Using the standard interpretive categories of politics, economics, society, and culture, the course will explore such topics as pre-imperial China; the Qin-Han consolidations and breakdowns; pre-modern Imperial China (Jin, Sui, Tang, Song, including inter-dynasty kingdoms); the Mongol (Yuan) dynasty; early modern and modern imperial China (Ming and Qing); and the Revolutionary periods of the twentieth century, including the Guomindang era, Maoism, and Post-Mao modernizations. Students who take this course for International Studies credit will be required to do an extra writing assignment that integrates the material of this course with their International Studies focus region. It is desired but not required that students will have taken HIST 112 World History prior to taking this course.

Equivalent(s): HIST 372

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 375 Japan Past and Present credit(s): 3

This course is a focused survey of Japanese history from the Jomon Period (c. 14,000 B.C.) up to the present. Using the standard interpretive categories of politics, economics, society, and culture, the course will explore such topics as the Jomon and Yayoi classical ages; the Yamato, Nara, and Heian aristocratic ages; the Kamakura, Ashikaga, and Tokugawa warrior ages, and the modern period from the Meiji Restoration through the twentieth century. Students who take this course for International Studies credit will be required to do an extra writing assignment that integrates the material of this course with their International Studies focus region. It is

desired but not required that students will have taken History 112 World History) prior to taking this course.

Equivalent(s): HIST 373

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 377 Mexico

credit(s): 3

A survey of Mexican history from the Aztec wars to the present.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): HIST 383

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 378 Global-Intercultural Connections

credit(s): 3

Course repeatable for 9 credit.

This course will examine questions of Global and Intercultural nature according to the criteria for inclusion in the "Global and Intercultural Interconnection" Thematic courses.

INST 379 Topics in War and Peace

credit(s): 3

Course repeatable for 9 credit.

This course will examine questions of war and peace according to the criteria for inclusion in the "War and Peace" Thematic courses.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): HIST 102 or HIST 112

INST 380 Global Social Change

credit(s): 3

This course examines social change and its implications for individuals and groups at the local and global level, and offers sociological perspectives on the political, economic, and cultural processes of globalization throughout the world, including Asia, Latin America, North America, Africa and the Middle East. This course explores the historical development of global capitalism with a focus on the changing relationships between markets, states, and civil societies and analyzes the forces that promote and resist these changes including migration, state violence, and social movements. Questions of power and inequality will be central to our approach, as we explore global social change through the lens of world-systems theory, neoliberalism, and neo-institutionalism. Offered every other year.

Equivalent(s): SOCI 380, SOSJ 345

Prerequisite(s): HIST 102 or HIST 112

INST 381 Mafia and Politic Violence-Film/Literature

credit(s): 3

Through a study of Italian film, novels and nonfiction, this course will examine the phenomenon of organized crime in Italian society. In English. Special arrangements may be made for majors in Italian Studies and minors in Italian.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): ITAL 319

INST 383 Ethics-Human Rigths-Globalization credit(s): 3

Focus on religious and ethical responses to issues arising in relation to globalization, and specifically, the topic of human rights.

Fulfills the following degree requirement(s): RELI - Religious Ethics 76-84, SOSJ - Block A, Core: Global Studies

Equivalent(s): RELI 383, SOSJ 310

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 384 Foundations of East Asian Civilization credit(s): 3

This course seeks to give students an understanding of the history and culture of pre-modern China, Japan, Korea, and Vietnam. After exploring the historical roots of Confucianism, Daoism and Buddhism in China, students will examine the ways in which these foundational philosophies helped form social, cultural, and political institutions in China and its neighbors. Students will also focus attention on the historical emergence of the Chinese imperial system, and its greatest pre-modern exemplars, the Qin, Han and T'ang dynasties. Not limiting the focus to China alone, students will also explore how the concept of China as the "middle kingdom" influenced the language, religion and political developments in Japan and Korea, leading to an authentic "macro-culture" in East Asia. The course will finish with a discussion of samurai culture and an analysis of how the Mongol conquests of Central and East Asia transformed the region, taking students to the threshold of the early modern period in Asia. It is desired but not required that students take HIST 112 prior to this course.

Fulfills the following degree requirement(s): HIST - Asian History

Equivalent(s): HIST 370

Prerequisite(s): HIST 101 or WGST 271C

INST 385 Latin American Politics credit(s): 3

Impressive contributions and drawbacks of the caudillo or leader in Latin American history, culture, and society, in the range of contemporary forms of government-democratic, dictatorial, revolutionary. Some treatment of U.S. foreign policy.

Fulfills the following degree requirement(s): HIST - Non-History elect

Equivalent(s): POLS 352

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 389 Politics of the Pacific Rim credit(s): 3

Focus on the role played by the East Asian capitalist development states (Japan, South Korea, Taiwan, Hong Kong, and Singapore) in the accelerated economic growth of the Pacific Rim; a consideration of the Philippines as a representative of ASEAN; finally, a brief look at the likely impact of this Pacific Basin dynamism on the USA, Russia, and the P.R.C.

Equivalent(s): POLS 364

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 390 African Politics and Development credit(s): 3

This is a course on the political economy of, largely, sub-Saharan Africa. Poverty is Africa's overriding moral, economic, and political challenge. Topics treated include: state-society relations, civil society, institutions, incentives – political and economic, concepts and

experiences of development, violence and ruling practices, trade and investment, urban and rural issues, formal and informal economies, social movements and political parties, inequality and justice, accountability of power, capacity building and corruption.

Equivalent(s): POLS 365

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 391 Fascist Italy

credit(s): 3

Italian history from 1918 to 1945, including an examination of social and economic conditions in post-world war Italy, rise of the Fascist Party, the role of Benito Mussolini, the nature of fascist government in Italy, Italian imperialism under Mussolini, and the part played by Italy as an ally with Hitler's Germany.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): HIST 338

Prerequisite(s): HIST 102 or HIST 112

INST 392 Tyranny to Democracy 21st Century

credit(s): 3

Between 1974 and 2000 more than fifty countries in Southern Europe, Latin America, East Asia, and Eastern Europe shifted from authoritarian to democratic systems of government. This course examines the causes and nature of these democratic transitions and investigates several case studies of democratic transitions in different areas of the world; in order to understand the factors responsible for the democratic trend and to ascertain which key variables best explain completed democratic transitions and democratic consolidation. Spring, alternate years.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): POLS 368, SOSJ 346

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 393 New Europe

credit(s): 3

Studies the "new Europe" that has emerged since 1989 as integration through the European Union deepens and widens. Explores contemporary issues that European integration and globalization have fostered in the new Europe such as the resurgence of nationalism and extreme right-wing parties, the increased salience of local and regional identities, the need to build a supra-national European identity, increasing cultural diversity and the need to better manage immigration and migration, and Europe's place in the global economy and foreign affairs as it challenges American hegemony and seeks to continue to be a major player in world affairs.

Equivalent(s): POLS 367

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 394 Modern Latin America

credit(s): 3

A general introduction to the history of the former colonies of Spain and Portugal in the western hemisphere. Topics include the rise of caudillos, rural developments, the emergence of liberal economic development, populism, banana republics, dictatorships, dirty wars, Marxist

revolution, and contemporary predicaments.

Fulfills the following degree requirement(s): HIST - Latin American History

Equivalent(s): HIST 381

INST 395 Comparative European Politics **credit(s): 3**

Survey of the parties, institutions, political processes, issues and policies of the major western European industrialized nations. Special focus on England, France, and Germany, but coverage extends to the other European democracies as well.

Equivalent(s): FILM 344, POLS 354

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 396 Chinese Philosophy **credit(s): 3**

A survey of the history of Chinese philosophy focusing on the Confucian tradition and taking other traditions such as Taoism and Buddhism into account.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Equivalent(s): PHIL 434

Prerequisite(s): PHIL 201

INST 397 Nazi Germany **credit(s): 3**

This course examines German politics and society during the Weimar and Nazi periods. Its main emphasis is the relationship between the German people, Adolf Hitler, and the Nazi Party, and the impact that Nazism had on German society and institutions. The course further emphasizes the Nazi regime's foreign policy objectives as well as its racial goals, each of which found their fullest expression during World War II and the Holocaust. As these extremes aspect of the Third Reich pose the central problems of modern European history, students who complete this course will become familiar with the documents and historiography that inform the history of the Nazi era.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication West

Equivalent(s): HIST 329

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): HIST 102 or HIST 112

INST 399 Region Studies Abroad **credit(s): 1-4**

Course repeatable for 12 credit.

Region study courses in politics, history, and economics taken abroad.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 401 Perspectives on Global Issues **credit(s): 3**

Critical analysis of vital global issues from the different perspectives of realists, idealists, and system-transformers. Exploration of competing worldviews and value systems, weighing of evidence from differing ideological, cultural, and gender perspectives. Introduces major

analytical perspectives and organizing concepts fashioned by scholars to make these issues comprehensible.

Equivalent(s): POLS 366, POLS 376

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): INST 201 or INST 301 or POLS 350

INST 406 Narrative Fiction in Spanish America **credit(s): 3**

The novel and short story in Spanish America during the twentieth century.

Equivalent(s): SPAN 406

Prerequisite(s): SPAN 302

INST 414 Latin American Cinema **credit(s): 3**

This course will focus on a series of representative Latin American films in order to explore issues of national formation and cultural identity. Emphasis will be given to the social, political, and economic factors which affect the production and reception of these films.

Fulfills the following degree requirement(s): HIST - Non-History elect, SPAN - Culture

Equivalent(s): FILM 340, SPAN 416

Prerequisite(s): SPAN 302

INST 415 Spanish Cinema **credit(s): 3**

This course will provide an introduction to Spanish cinema through the study of film theory and representative films from different periods. Particular attention will be given to the historical, social, and cultural framework in the production and reception of those movies, as well as theories of authorship, gender, and national/cultural identity.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): FILM 341, SPAN 415

Prerequisite(s): SPAN 302

INST 416 The Italian Cinema **credit(s): 3**

This course aims at presenting aspects of Italian society through film. In English. Special arrangements may be made for majors in Italian Studies and minors in Italian.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec, Core: Literature

Equivalent(s): ITAL 315

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 430 Intersectional Communication **credit(s): 3**

The study of communication and culture in a global world cannot and must not be apolitical, ahistorical, or blind to the messy entanglements of power and privilege. Therefore, this course will focus on the intersections between critical race theory, feminist theory, and critical intercultural communication in order to interrogate and examine the ways in which our social identities and locations affect the contexts of our lives including our opportunities, relationships, and overall understanding of the world. Specifically, this course will engage the

work of Black Feminist scholars and ongoing scholarly conversations on intersectionality to analyze intercultural encounters and engagement. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 430, SOSJ 466

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 320, minimum grade: C or COMM 340, minimum grade: C or COMM 370, minimum grade: C

INST 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

INST 440 Rhetoric of Social Change **credit(s): 3**

Public expression and discourse can affirm, complicate, challenge, and even radically revolutionize our shared values and ideals over time. Arguments and symbolic actions in communal spaces prompt individuals and groups to re-think, re-develop, and re-establish potential modes of identity, participation, and interaction within a society. Students in this course will closely examine specific social movements (including, potentially, civil rights, gender rights, indigenous rights, and environmental movements) to better understand the plurality of voices and modes of public expression in dialogue and competition that contribute to, resist, and ultimately shape societal change. Students will then build upon historical knowledge and perspective to engage in an immersive study of an ongoing contemporary social controversy, ultimately creating an informed rhetorical intervention of their own, participating in the social issues and changes of the current day. Fall.

Equivalent(s): COMM 440

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 320, minimum grade: C or COMM 340, minimum grade: C or COMM 350, minimum grade: C

INST 480 Topic in International Studies **credit(s): 1-4**

Course repeatable for 9 credit.

Selected International Studies topics of current and special interest.

INST 490 Directed Reading **credit(s): 1-3**

Credit by arrangement for directed reading and reports on selected topics.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 492 Independent Research or Study

credit(s): 0-6

Course repeatable for 12 credit.

Topic to be determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

INST 497 Internship in International Studies

credit(s): 0-6

Course repeatable for 6 credit.

Internship with organization with an international dimension, e.g., political or economic policy organizations, think tank or advocacy organizations; public or foreign policy organizations; human services, non-profit, or charitable organizations.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Italian Studies Program

Director: Torunn Haaland

Professor: G. Brooke (Emerita), T. Haaland

Associate Professors: S. Nedderman (Emerita)

Assistant Professor:

The program offers one major and one minor:

Bachelor of Arts, Italian Studies major

Minor in Italian Studies

Italian Studies is an interdisciplinary program aimed at imparting an understanding of Italian culture and competence in the Italian language.

Students who choose to major in Italian Studies will spend at least one semester of study in Italy either in Gonzaga-in-Florence or a comparable program. In their fourth year, Italian Studies Majors will complete a senior project (ITAL 498) and, regardless of credits earned, take at least one 3-credit upper division course in Italian assuming that such a course is offered.

The Director of the Italian Studies Program is advised by a committee formed by the chairs or representatives of the departments that offer upper division electives for Italian Studies. Meetings of the advisory committee are called by the Director of Italian Studies as needed. Since the effective availability of upper-level courses offered on the Spokane campus will at times be contingent upon enrollment, completion of the Italian Studies major and/or minor may require enrolling in summer courses in addition to a study abroad program.

B.A. Major in Italian Studies: 36 Credits or 22 credits at the 300 level and above

Lower Division Courses

ITAL 101 Elementary Italian I	3 credits
ITAL 102 Elementary Italian II	3 credits
ITAL 201 Intermediate Italian I	4 credits
ITAL 202 Intermediate Italian II	4 credits

Upper Division Courses

One of the following two courses:	3 credits
ITAL 301 Advanced Italian I	
ITAL 302 Advanced Italian II	

Electives (chosen from the elective list below or, **any Italian course(s) listed under Modern Languages**. At least nine elective credits must be from courses taught in Italian.) 18 credits

ITAL 498 Senior Project 1 credit

Minor in Italian Studies: 26 credits

or 12 credits at the 300 level and above

Lower Division Courses

ITAL 101 Elementary Italian I	3 credits
ITAL 102 Elementary Italian II	3 credits
ITAL 201 Intermediate Italian I	4 credits
ITAL 202 Intermediate Italian II	4 credits

Upper Division Courses

One of the following four courses:	3 credits
ITAL 301 Advanced Italian I	
ITAL 302 Advanced Italian II	
ITAL 306 Advanced Conversation	
ITAL 307 Conversational Approach to Contemporary Issues	
Electives (chosen from the elective list below or, any Italian course(s) listed under Modern Languages.)	9 credits

The following courses may be applied toward electives for the major and minor in Italian Studies. **No more than two courses can be taken from the same discipline** (this doesn't apply to courses housed in the Italian program). Complete course descriptions and frequency of offering can be found under departmental listings. Several courses are offered upon sufficient demand. Relevant courses that are not listed, require prior approval from the Director of Italian Studies to be used toward the major or minor in Italian Studies.

ECON 404 Economic Integration in European Communities (Florence only)
ENGL 367 Love in the Renaissance (Florence only)
HIST 305/ITAL 363 The Roman Republic
HIST 306/ITAL 364 The Roman Empire
HIST 309 Italy: Homeland of the Romans (Florence only)
HIST 311/ITAL 366 Medieval Europe (Florence only)
HIST 312/ITAL 367 Renaissance Europe (Florence only)
HIST 336 History of Food (Florence only)
HIST 338/INST 391 Fascist Italy
INST 381/ITAL 319 Mafia and Political Violence in Film and Literature
INST 416/ITAL 315 The Italian Cinema
ITAL 313 The World of Dante (Florence only)
POLS 357 Italian Political System (Florence only)
SOVI 378 Social Economic Development of Italy
VART 360 Museum Studies (Florence only)
VART 397 Renaissance Art (Florence only)
VART 401 Renaissance Architecture (Florence only)
VART 466/PHIL 472 Philosophy of Art (Florence only)

Mathematics

Chairperson: Logan Axon

Professors: V. Coufal, T. McKenzie, S. Overbay, J. Burke (Emeritus), W. Carsrud (Emeritus), J. Firkins (Emeritus)

Associate Professors: M. Alsaker, L. Axon, R. Cangelosi, M. Ghrist, E. Hogle, M. K. Kearney, R. Ray, K. Shultis, J. Stover, G. Nord (Emeritus), J. Vander Beek (Emeritus), H. Whitlatch

Assistant Professors: D. Larson, A. Mamun

Senior Lecturers: C. Goodwin, T. Guardia, O. Kozubenko, S. Powers

Lecturers: S. Madrid, S. Veerayah-McGregor

Postdoctoral Teaching Fellow: K. Rivera-Lopez

The department offers two degrees, three majors, and three minors:

Bachelor of Science in Mathematics

(optional concentration in Statistics)

Bachelor of Arts in Mathematics

(optional concentration in Statistics)

Bachelor of Science in Applied Mathematics

(optional concentrations in: Actuarial Science, Biology, Biochemistry, Chemistry, Computer Science, Economics, Environmental Science, Physics, Statistics)

(optional double concentrations in: Biology and Statistics, Biochemistry and Statistics, Chemistry and Statistics, Economics and Statistics, Environmental Science and Statistics, Physics and Statistics)

Minor in Applied Mathematics

Minor in Mathematics

Minor in Statistics

The Department of Mathematics provides training in mathematics and statistics and their applications to solve problems in business, engineering, the social sciences, and other disciplines. The curriculum offers a blend of pure mathematics, applied mathematics and statistics. The department provides students with opportunities to foster their passion for mathematics and statistics, and to enhance their understanding of the role of mathematics and statistics in the world. Such opportunities include participating in conferences, community teaching, undergraduate research, and clubs. Majors are well prepared for positions in industry, government, and education, as well as for graduate studies.

All majors must take a senior comprehensive course (MATH 496 or MATH 499) in the fall semester of their final year. It is recommended that all Mathematics majors take PHYS 121, CHEM 101, or BIOL 105 to satisfy their University Core Scientific Inquiry requirement. Prospective teachers of mathematics should consult the School of Education for the current state certification requirements.

The department involves students with activities sponsored by the Mathematical Association of America (MAA) and the Society of Industrial and Applied Mathematics (SIAM). Students may also participate in the William Lowell Putnam Mathematical Competition or the Mathematical Contest in Modeling.

Students pursuing a major in Mathematics may pursue a concentration in Statistics (or no concentration). Students pursuing a major in Applied Mathematics may choose a single concentration from the list below (or no concentration). Some Applied Mathematics concentrations may also be combined with a concentration in Statistics for a double concentration (see the list below). Other combinations of concentrations are not allowed. Students pursuing a major in Mathematics or Applied Mathematics cannot pursue a minor in Mathematics, Applied Mathematics or Statistics. Students are able to major or minor in Mathematics or Applied Mathematics, but not both.

B.S. Major in Mathematics: 40 Credits

Lower Division

MATH 157 Calculus and Analytic Geometry I	4 credits
MATH 258 Calculus and Analytic Geometry II	4 credits
MATH 259 Calculus and Analytic Geometry III	4 credits

Upper Division

MATH 301 Fundamentals of Mathematics	3 credits
MATH 339 Linear Algebra	3 credits
MATH 413 Real Analysis I	3 credits
MATH 437 Abstract Algebra I	3 credits
Choose one of the following five courses:	3 credits
MATH 414 Real Analysis II	
MATH 417 Complex Analysis	
MATH 438 Abstract Algebra II	
MATH 457 Number Theory & Cryptography	
MATH 459 Topology	
MATH 300-400 level electives*	6 credits
MATH 400-level electives	6 credits
MATH 499 Comprehensive - Math	1 credit

*One of these courses may be replaced by MATH 260.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 432 or MATH 496 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

B.S. Major in Mathematics with a concentration in Statistics: 49 Credits

Students complete the B.S. Major in Mathematics as listed above, with the following two differences for Math Electives:

- 3 credits instead of 6 for MATH 300-400 level electives,
- 3 credits instead of 6 for MATH 400-level electives
- Plus additional statistics courses.

Choose one of the following two courses: 3 credits

MATH 321 Statistics for Experimentalists

MATH 422 Mathematical Statistics

MATH 421 Probability Theory 3 credits

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

MATH 300-400 level elective* 3 credits

MATH 400-level elective 3 credits

Statistics electives 6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

**One of these courses may be replaced by MATH 260*

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 432 or MATH 496 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

B.A. Major in Mathematics: 31 Credits

Lower Division

MATH 157 Calculus and Analytic Geometry I 4 credits

MATH 258 Calculus and Analytic Geometry II 4 credits

MATH 259 Calculus and Analytic Geometry III 4 credits

Upper Division

MATH 301 Fundamentals of Mathematics 3 credits

MATH 339 Linear Algebra 3 credits

One of the following two courses: 3 credits

MATH 413 Real Analysis I

MATH 437 Abstract Algebra I

MATH 300-400-level elective* 6 credits

MATH 400-level elective 3 credits

MATH 499 Comprehensive - Math 1 credit

**One of these courses may be replaced by MATH 260.*

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 432 or MATH 496 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

B.A. Major in Mathematics with a concentration in Statistics: 40 Credits

Students complete the B.A. Major in Mathematics as listed above, plus additional credits of statistics courses. Math electives are changed as follows:

- 3 credits instead of 6 for MATH 300-400 level electives
- MATH 421 instead of a MATH 400-level elective
- Plus additional statistics courses.

MATH 300-400 level elective 3 credits

MATH 421 Probability Theory 3 credits

Choose one of the following two courses: 3 credits

MATH 321 Statistics for Experimentalists

MATH 422 Mathematical Statistics

Choose one of the following two courses 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives 6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

**One of these courses may be replaced by MATH 260*

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 432 or MATH 496 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

B.S. Major in Applied Mathematics: 57-77 Credits

Lower Division

MATH 157 Calculus and Analytic Geometry I 4 credits

MATH 258 Calculus and Analytic Geometry II 4 credits

MATH 259 Calculus and Analytic Geometry III 4 credits

MATH 260 Ordinary Differential Equations* 3 credits

CPSC 121 Computer Science I 3 credits

Upper Division

MATH 301 Fundamentals of Mathematics	3 credits
<i>Choose one of the following two courses:</i>	3 credits
MATH 335 Applied Linear Algebra	
MATH 339 Linear Algebra	
MATH 350 Numerical Methods ⁽²⁾	3 credits
MATH 413 Real Analysis I ⁽³⁾	3 credits
<i>Choose one of the following two courses:</i>	3 credits
MATH 321 Statistics for Experimentalists ⁽⁴⁾	
MATH 422 Mathematical Statistics ⁽⁵⁾	
MATH 496 Comprehensive - Applied Math	1 credit
Select an Applied Math concentration option	23-43 credits

Select one of the following Applied Math concentration options:

(Due to the interdisciplinary nature of the following options, students should make note of pre-requisites and minimum grade requirements that may not be listed as degree requirements.)

No concentration	23-24 credits
Actuarial Science concentration	35 credits
Biology concentration	34 credits
Biochemistry concentration	33 credits
Chemistry concentration	33 credits
Computer Science concentration	33 credits
Economics concentration	30-31 creds
Environmental Science concentration	34 credits
Physics concentration	31 credits
Statistics concentration	31-32 creds
Biology and Statistics double concentration	43 credits
Biochemistry and Statistics double concentration	42 credits
Chemistry and Statistics double concentration	42 credits
Economics and Statistics double concentration	39-40 creds
Environmental Science and Statistics double concentration	43 credits
Physics and Statistics double concentration	40 credits

NOTE Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

** Computer Science concentration only: MATH 260 optional, may be counted as a MATH 300-400 level elective.*

⁽²⁾Actuarial Science Concentration students take MATH 423 Stochastic Processes instead of MATH 350.

⁽³⁾Computer Science concentration students may choose MATH 437 Abstract Algebra I, or MATH 457 Number Theory and Cryptography instead of MATH 413.

⁽⁴⁾Actuarial Science concentration students must take MATH 422 (not MATH 321).

⁽⁵⁾All non-double concentrations except Actuarial Science: If MATH 422 is chosen, then one MATH 400-level elective may be replaced by a MATH 300-level elective.

No concentration: 23-25 credits (34 + 23-24 credits)	57-58 credits
Choose two of the following three courses/lab combinations:	8 credits
BIOL 105/BIOL 105L Info Flow in Biological Systems and Lab	
CHEM 101/CHEM 101L General Chemistry and Lab	
PHYS 121 Physics I	
Choose one of the following four courses:	3-4 credits
BIOL 106 Energy Flow in Biological Systems (3 credits)	
CHEM 205 Inorganic Chemistry (3 credits)	
CHEM 230/CHEM 230L Organic Chemistry I and Lab (4 credits)	
PHYS 122 Physics II (4 credits)	
Choose one of the following three courses:	3 credits
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 300-400 level elective	3 credits
MATH 400- level electives	6 credits

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Applied Math Single Concentrations:

<i>Actuarial Science Concentration: 34 credits + 35 credits</i>	69 credits
ACCT 263 Accounting Analysis	3 credits
ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits
ECON 301 Intermediate Microeconomics	3 credits
ECON 352 Money and Banking	3 credits
ECON 352L Money and Banking Lab	1 credit
ECON 355 Regression Analysis	3 credits
ECON 451 Econometrics	3 credits
MATH 421 Probability Theory	3 credits
MATH 494 Topics in Actuarial Science	1 credit
MATH 300-400 electives	6 credits
<i>One of the following two options:</i>	3 credits
MATH 400- level elective	
ECON 452 Time Series Analysis	

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

<i>Biology concentration: 34 credits + 34 credits</i>	68 credits
CHEM 101/CHEM 101L General Chemistry and Lab	4 credits
BIOL 105/BIOL 105L Info Flow in Biological Systems and Lab	4 credits
BIOL 106 Energy Flow in Biological Systems	3 credits
<i>Choose two of the following three courses:</i>	8 credits
BIOL 205/BIOL 205L Physiology and Biodiversity and Lab	
BIOL 206/BIOL 206L Ecology and Lab	
BIOL 207/BIOL 207L Genetics and Lab	
BIOL 300-400 level electives ⁽¹⁾	6 credits
<i>Choose one of the following three courses:</i>	3 credits
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 400- level electives	6 credits

⁽¹⁾Biology elective options: BIOL 303, 313, 323, 331, 333, 335, 338, 340, 341, 343, 344, 357, 360, 367, 371, 399, 403, 420, 441 (other courses may be considered on a case-by-case basis). BIOL 334, 337, and 451 are allowed but require BIOL 205, 206, and 207 as pre-requisites. Up to 2 credits may come from labs associated with any of these courses.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Biochemistry concentration: (34 credits + 33 credits)

67 credits

CHEM 101/CHEM 101L General Chemistry and Lab

4 credits

CHEM 230/CHEM 230L Organic Chemistry I and Lab

4 credits

CHEM 231/CHEM 231L Organic Chemistry II and Lab

4 credits

CHEM 245/CHEM 245L Biochemistry and Lab

4 credits

CHEM 399 Advanced Topics

2 credits

CHEM 407 Special Topics in Biochemistry

2 credits

Choose one of the following three courses:

3 credits

MATH 440 Foundations of Applied Math

MATH 454 Partial Differential Equations

MATH 462 Nonlinear Systems and Chaos

MATH 300-400 level elective

3 credits

MATH 400- level electives

6 credits

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Chemistry concentration: (34 credits + 33 credits)

67 credits

PHYS 121 Physics I

4 credits

CHEM 101/CHEM 101L General Chemistry and Lab

4 credits

CHEM 205 Inorganic Chemistry

3 credits

CHEM 230/CHEM 230L Organic Chemistry I and Lab

5 credits

CHEM 310/CHEM 310L Analytical Chemistry and Lab

5 credits

CHEM 355 Physical Chemistry

3 credits

Choose one of the following three courses:

3 credits

MATH 440 Foundations of Applied Math

MATH 454 Partial Differential Equations

MATH 462 Nonlinear Systems and Chaos

MATH 400- level electives

6 credits

Computer Science concentration: (33 credits + 31 credits) 64 credits

Choose one of the following two courses: 3 credits

CPSC 122 Computer Science II

CPSC 222 Intro to Data Science

Choose one of the following four courses: 3 credits

CPSC 322 Data Science Algorithms

CPSC 351 Theory of Computation

CPSC 353 Applied Cryptography

CPSC 450 Design & Analysis Algorithms

CPSC 200-300-400 level electives⁽¹⁾ 3 credits

CPSC 300-400 level electives 3 credits

MATH 351 Combinatorics & Graph Theory 3 credits

Choose three of the following six courses: 9 credits

MATH 328 Operations Research

MATH 421 Probability Theory

MATH 423 Stochastic Processes

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

MATH 455 Chaos and Discrete Dynamical Systems

MATH 300-400 elective 3 credits

MATH 400-level electives 6 credits

⁽¹⁾CPSC elective options: CPSC 224, 321, 322*, 323*, 324*, 325, 326, 331-334, 351*, 353*, 447, 475. Other options are CPSC 223, 425, 450* (check for pre-requisites).

*recommended elective choices

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives..

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Economics concentration: (34 credits + 30-31 credits) 64-65 credits

ECON 201 Microeconomics 3 credits

ECON 202 Macroeconomics 3 credits

Choose one of the following two courses: 3 credits

ECON 301 Intermediate Microeconomics⁽¹⁾

ECON 351 Managerial Economics

ECON 303 Game Theory and Economic Applications 3 credits

ECON 300-400 level elective⁽²⁾ 3-4 credits

MATH 421 Probability Theory 3 credits

Choose two of the following five courses: 6 credits

MATH 423 Stochastic Processes

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 300-400 level elective	3 credits
MATH 400-level elective	3 credits

⁽¹⁾ECON 301 pre-requisite ECON 201 requires a minimum grade of B-.

⁽²⁾ECON Elective options: ECON 320, 321*, 322, 324, 325, 330, 333, 334, 352/352L*, 355, 451*, 452*. *recommended elective choices

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

<i>Environmental Science concentration: (34 credits + 34 credits)</i>	68 credits
ENVS 101 Introduction to Environmental Studies	3 credits
ENVS 103/ ENVS 103L Environmental Biology ⁽¹⁾	4 credits
<i>Choose one of the following two courses:</i>	4 credits
CHEM 101/ CHEM 101L General Chemistry	
BIOL 105/ BIOL105L Info Flow in Biological Systems	
<i>Choose one of the following two courses:</i>	4 credits
ENVS 110/ ENVS 110L Introduction to Earth Systems	
ENVS 202/ ENVS 202L Chemistry and the Environment ⁽²⁾	
ENVS 320 Economics of Environmental Protection ⁽³⁾	3 credits
ENVS 384/ ENVS 384L GIS and Ecological Techniques ⁽⁴⁾	4 credits
<i>Choose two of the following five courses:</i>	6 credits
MATH 425 Applied Statistical Models	
MATH 426 Experimental Design	
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 300-400 level elective	3 credits
MATH 400- level elective	3 credits

⁽¹⁾Alternative: BIOL 206/206L (cross-listed, pre-requisite BIOL 105/106).

⁽²⁾Pre-requisite CHEM 101/101L.

⁽³⁾Alternative: ECON 324 (pre-requisite ECON 200 or 201).

⁽⁴⁾Alternative: BIOL 344/344L (cross-listed, pre-requisite BIOL 106/206).

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Physics concentration: (34 credits + 31 credits)	65 credits
PHYS 121/PHYS 121L Physics I and Lab	5 credits
PHYS 122/PHYS 122L Physics II and Lab	5 credits
PHYS 200, 300, 400 level electives ⁽¹⁾	6 credits
<i>Choose two of the following four courses:</i>	6 credits
MATH 417 Complex Variables	
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 300-400 level elective	3 credits
MATH 400- level electives	6 credits

⁽¹⁾ *PHYS elective options:* PHYS 224, 321, 322, 323, 324, 424, 451, 452, 453, 454, 455, 456 (PHYS 324, 453, & 454 require PHYS 224, 321, and 322 as pre-requisites; PHYS 424 requires PHYS 324 as pre-requisite)

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Statistics concentration: (34 credits + 31-32 credits)	65-66 credits
<i>Choose one of the following three sets of courses:</i>	7-8 credits
Biology Set:	
BIOL 105/BIOL 105L Info Flow in Biological Systems and Lab	
BIOL 106 Energy Flow in Biological Systems	
Physics Set:	
PHYS 121 Physics I	
PHYS 122 Physics II	
Chemistry Set:	
CHEM 101/CHEM 101L General Chemistry and Lab	
CHEM 205 Inorganic Chemistry	
<i>Choose one of the following three courses:</i>	3 credits
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 421 Probability Theory	3 credits
<i>Choose one of the following two courses</i>	3 credits
MATH 425 Applied Statistical Models	
MATH 426 Experimental Design	
MATH 300-400 level elective	3 credits
MATH 400- level electives	6 credits
Statistics Electives	6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Applied Math Double Concentrations:

Biology and Statistics double concentration: (34 credits + 41 credits)

75 credits

Students complete the B.S. Major in Applied Mathematics with a Biology concentration as listed above, with the following difference for MATH electives:

- 3 credits of MATH 400-level electives instead of 6 credits.
- Students take additional statistic courses.

MATH 300-400 level elective

3 credits

MATH 421 Probability Theory

3 credits

Choose one of the following two courses:

6 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics Electives

6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives: MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Biochemistry and Statistics double concentration: (34 credits + 41 credits)

75 credits

Students complete the B.S. Major in Applied Mathematics with a Biochemistry concentration as listed above, with additional statistics courses.

- Math electives differ with 3 credits instead of 6 credits for Math 400-level electives.

MATH 300-400 level electives

3 credits

MATH 400- level elective

3 credits

MATH 421 Probability Theory

3 credits

Choose one of the following two courses: 3 credits
MATH 425 Applied Statistical Models
MATH 426 Experimental Design

Statistics electives 6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 432 or MATH 496 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Chemistry and Statistics double concentration: (34 credits + 42 credits) 76 credits

Students complete the B.S. Major in Applied Mathematics with a Chemistry concentration as listed above, with additional statistics courses.

- 3 credits of MATH 300-400 electives instead of MATH 400-level electives
- Students take additional statistics courses.

MATH 300-400 level elective 3 credits

MATH 421 Probability Theory 3 credits

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives 6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH elective.

Maximum of three (3) total credits from the following may be counted

toward Math electives: MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Economics and Statistics double concentration: (34 credits + 39-40 credits) 73-74 credits

Students complete the B.S. Major in Applied Mathematics with an Economics concentration as listed above, with additional statistics courses.

- The requirement to Choose two of the following five courses (MATH 423, 425, 426, 440, 454) is modified as Choose one of two and Choose one of two courses as shown:

MATH 300-400 level elective 3 credits

MATH 400- level elective 3 credits

Choose one of the following two courses: 3 credits

MATH 440 Foundations of Applied Math

MATH 454 Partial Differential Equations

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives 9 credits

Select three courses from the Statistics Electives list.

Two courses must be MATH. Cannot double-count with courses used elsewhere.

Math Electives:

- cannot double-count with a required course.
Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives. Maximum of three (3) total credits from the following may be counted toward Math electives: MATH 365 (may be taken for credit only once), MATH 390, MATH 490, MATH 497.

Environmental Science and Statistics double concentration: 77 credits (34 credits + 43 credits)

Students complete the B.S. Major in Applied Mathematics with a concentration in Environmental Science, plus additional statistics courses.

- The requirement to choose two of the following five courses (MATH 423, 425, 426, 440, 454) is modified as choose one of three and choose one of two courses as shown.
- MATH 421 taken instead of MATH 400-level elective.

MATH 300-400 level elective 3 credits

MATH 421 Probability Theory 3 credits

Choose one of the following three courses: 3 credits

MATH 440 Foundations of Applied Math

MATH 454 Partial Differential Equations

MATH 462 Nonlinear Systems and Chaos

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives 9 credits
Select three courses from the Statistics Electives list.
Two courses must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.
Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.
Maximum of three (3) total credits from the following may be counted toward Math electives:
MATH 365 (may be taken for credit only once),
MATH 390, MATH 490, MATH 497.

Physics and Statistics double concentration: (34 credits + 40 credits) **74 credits**

Students complete the B.S. Major in Applied Mathematics with a Physics concentration as listed above, with the following difference for MATH electives

- 3 credits of MATH 400-level electives instead of 6 credits.
- Students take additional statistics courses

MATH 300-400 level elective 3 credits

MATH 400- level elective 3 credits

MATH 421 Probability Theory 3 credits

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives 6 credits

Select two courses from the Statistics Electives list.

At least one course must be MATH. Cannot double-count with courses used elsewhere.

Math Electives: cannot double-count with a required course.
Cannot use MATH 335, MATH 339, MATH 432 or MATH 499 as MATH electives.
Maximum of three (3) total credits from the following may be counted toward Math electives:
MATH 365 (may be taken for credit only once),
MATH 390, MATH 490, MATH 497.

Statistics Electives List

MATH 422 Mathematical Statistics
MATH 423 Stochastic Processes
MATH 426 Experimental Design
ECON 355 Regression Analysis
ECON 451 Econometrics
ECON 452 Time Series Analysis
CPSC 322 Data Science Algorithms
CPSC 323 Machine Learning & Intelligent Systems
CPSC 324 Big Data Analytics
PHYS 323 Statistical Physics
PSYC 450 Advanced Statistics in Psychology

*Or any course with significant probability or statistics content with approval of the Math Department Chair. All of these courses have pre-requisites and may require courses outside of the concentration to be taken.

Minor in Applied Mathematics: 24 Credits

Lower Division

MATH 157 Calculus and Analytic Geometry I	4 credits
MATH 258 Calculus and Analytic Geometry II	4 credits
MATH 259 Calculus and Analytic Geometry III	4 credits
MATH 260 Ordinary Differential Equations	3 credits

Upper Division

<i>Choose one of the following two courses:</i>	3 credits
MATH 335 Applied Linear Algebra	
MATH 339 Linear Algebra	
<i>Choose one of the following three courses:</i>	3 credits
MATH 440 Foundations of Applied Math	
MATH 454 Partial Differential Equations	
MATH 462 Nonlinear Systems and Chaos	
MATH 300-400 level elective	
Applied Math electives:	3 credits

Math Electives: cannot double-count with a required course.

Cannot MATH 335, MATH 339, MATH 432, MATH 496, or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),
MATH 390, MATH 490, MATH 497.

Minor in Mathematics: 24 credits

Lower Division

MATH 157 Calculus and Analytic Geometry I 4 credits

MATH 258 Calculus and Analytic Geometry II 4 credits

MATH 259 Calculus and Analytic Geometry III 4 credits

Upper Division

MATH 301 Fundamentals of Mathematics 3 credits

Choose one of the following two courses: 3 credits

MATH 335 Applied Linear Algebra

MATH 339 Linear Algebra

MATH 300-400 level elective* 3 credits

MATH 400- level elective 3 credits

* *This course may be replaced by MATH 260.*

Math Electives: cannot double-count with a required course.

Cannot use MATH 335, MATH 339, MATH 432 MATH 496, or MATH 499 as MATH electives.

Maximum of three (3) total credits from the following may be counted toward Math electives:

MATH 365 (may be taken for credit only once),

MATH 390, MATH 490, MATH 497.

Minor in Statistics: 23 credits

Lower Division

MATH 157 Calculus and Analytic Geometry I 4 credits

MATH 258 Calculus and Analytic Geometry II 4 credits

Upper Division

Choose of the following two courses: 3 credits

MATH 335 Applied Linear Algebra

MATH 339 Linear Algebra

Choose one of the following two courses: 3 credits

MATH 321 Statistics for Experimentalists

MATH 422 Mathematical Statistics

Choose one of the following two courses: 3 credits

MATH 425 Applied Statistical Models

MATH 426 Experimental Design

Statistics electives: 6 credits

Select two courses from the Statistics Electives list.

One course must be MATH. Cannot double-count with courses used elsewhere.

Courses:

MATH 099 Intermediate Algebra credit(s): 3

Review of basic algebraic operations and concepts for students who need additional preparation before taking other courses involving mathematics. Topics include operations on algebraic expressions, factoring, algebraic functions, linear and quadratic equations, graphing, exponents, radicals, and linear equations in two unknowns. This course does not fulfill the math requirement in the University Core.

MATH 100 College Algebra credit(s): 3

College algebra for those students who need additional preparation before taking MATH 114, MATH 147, or MATH 148. Topics include equations, polynomials, conics, graphing, algebraic, exponential and logarithmic functions. This course does not fulfill the math requirement in the University Core. Fall and Spring.

Equivalent(s): MATH 112

MATH 103 Excursions in Mathematics credit(s): 3

An elementary survey of various mathematical areas such as algebra, geometry, counting (permutations, combinations), probability, and other topics selected by the instructor. This course is intended for the liberal arts student not pursuing business or the sciences. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

MATH 104 Elements of Algebra and Stats credit(s): 3

Development and application of concepts from algebra and statistics. Topics include polynomials, solving equations, graphing, functions, modeling, counting (permutations and combinations), data representation, probability, and statistics.

Fulfills the following degree requirement(s): Core: Mathematics

MATH 114 Mathematical Analysis-Business credit(s): 3

Designed for the student majoring in business. Topics selected from: functions and models, systems of equations, optimization, and introductory calculus. The emphasis will be on examples from business, which may include: cost, revenue, profit, supply, demand, market equilibrium, interest, present-value, future-value, and consumer and producer surplus. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

Prerequisite(s): MATH 100

MATH 121 Introductory Statistics credit(s): 3

An introduction to the basic concepts of descriptive and inferential statistics and their application to the interpretation and analysis of data. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

MATH 147 Precalculus credit(s): 3

Topics include advanced equations and inequalities, functions and graphs including composite and inverse functions, logarithmic and exponential functions, trigonometric functions and their graphs, right angle trigonometry, trigonometric identities, systems of equations, and conics. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

Prerequisite(s): MATH 100, minimum grade: C

MATH 148 Survey of Calculus **credit(s): 3**

A one semester introduction to differential and integral calculus designed to convey the significance, use and application of calculus for liberal arts students, particularly those in the behavioral, biological, and social sciences. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

Prerequisite(s): MATH 100

MATH 157 Calculus-Analytic Geometry I **credit(s): 4**

An introduction to calculus for engineering, science and mathematics students, with an emphasis on conceptual understanding, problem solving, and modeling. Topics covered include: limits, continuity, derivatives of algebraic, trigonometric, and transcendental functions, applications of the derivative including optimization problems and linear approximations, antiderivatives, introduction to the definite integral, and the Fundamental Theorem of Calculus. Fall and Spring.

Fulfills the following degree requirement(s): Core: Mathematics

Equivalent(s): HONS 157

Prerequisite(s): MATH 147, minimum grade: C

MATH 180 Special Topics **credit(s): 1-4**

Course repeatable for 9 credit.

Topic to be determined by instructor.

Corequisite(s): MATH 157

MATH 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

This course does not meet major or minor requirements.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

MATH 221 Applied Statistics **credit(s): 3**

This course contains an introduction to probability and the use of statistics to solve problems in a variety of scientific disciplines. Topics include experimental design, sampling methods, confidence intervals, hypothesis tests, and linear models. The use of statistical software is integral to this course. Fall.

Prerequisite(s): MATH 148 or MATH 157

MATH 231 Discrete Structures **credit(s): 3**

A study of propositional logic, set theory, functions, algorithms, divisibility, introductory number theory, elementary proof techniques, counting techniques, recursive definitions, mathematical induction, and graph theory. Fall and Spring.

Prerequisite(s): MATH 148 or MATH 157

MATH 258 Calculus-Analytic Geometry II **credit(s): 4**

A continuation of MATH 157. Topics covered are: techniques of integration, applications of the integral, improper integrals, sequences and infinite series with an introduction to convergence tests, parametric equations, and polar coordinates.

Equivalent(s): HONS 258

Prerequisite(s): MATH 157, minimum grade: C-

MATH 259 Calculus-Analytic Geometry III **credit(s): 4**

A treatment of multivariable calculus and the calculus of vector fields. Topics include: vectors and vector-valued functions, partial derivatives, multiple integration, curl and divergence, line integrals, Green's theorem, Stokes' theorem, and the Divergence theorem.

Prerequisite(s): MATH 258 Minimum Grade: C-

MATH 260 Ordinary Differential Equation **credit(s): 3**

Solution methods for first-order equations, second-order linear equations, and linear systems of differential equations, including analytic and qualitative approaches. Topics include mathematical modeling, Laplace transforms, Taylor series solutions, and an introduction to matrix methods. Additional topics may include numerical methods, analyzing nonlinear systems, and techniques for higher-order linear equations. Fall and Spring.

Prerequisite(s): MATH 259

MATH 290 Directed Reading **credit(s): 1-3**

Course repeatable for 6 credit.

Readings and reports in selected mathematical topics. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Sophomore

Prerequisite(s): MATH 157

MATH 301 Fundamentals of Mathematics **credit(s): 3**

A development of the standard techniques of mathematical proof through an examination of logic, set theory, as well as one-to-one, onto, and inverse functions. Additional topics may be chosen from the topology of the real line, the cardinality of sets, basic number theory, and basic group theory. Fall and Spring.

Equivalent(s): HONS 311

Prerequisite(s): MATH 259

MATH 321 Statistics for Experimentalist **credit(s): 3**

An applied statistics course for those with calculus preparation. Descriptive statistics, probability theory, discrete and continuous random variables, and methods of inferential statistics including interval estimation, hypothesis testing, and regression. Fall and Spring.

Prerequisite(s): MATH 258

MATH 328 Operations Research **credit(s): 3**

Quantitative methods for application to problems from business, engineering, and the social sciences. Topics include linear and dynamic programming, transportation problems, network analysis, PERT, and game theory. Spring, odd years.

Prerequisite(s): MATH 258

MATH 335 Applied Linear Algebra **credit(s): 3**

An applied study of matrices, vector spaces, and linear transformations, with a focus on computations and modeling. Topics include linear systems, dependence and rank, bases, inner

product spaces, orthogonal and orthonormal sets, eigenvalues and eigenvectors, matrix factorizations, and singular values. Additional topics may include numerical techniques and applications to static and dynamical physical systems, Markov chains, graph theory, artificial neural networks, image and signal processing. Computer programming will be an integral component of the class. Spring.

Prerequisite(s): MATH 157 Minimum Grade: C- or MATH 231 Minimum Grade: C-

MATH 339 Linear Algebra

credit(s): 3

A systematic study of the theory of matrices, vector spaces, and linear transformations. Topics include systems of linear equations, determinants, linear independence, bases, dimension, rank, eigenvalues, and eigenvectors. Additional topics may include inner products, orthonormal bases, projections, and quadratic forms. Applications may include geometry, adjacency matrices, calculus, difference equations, least squares, and Markov chains. Some proof-writing expected. Fall and Spring.

Prerequisite(s): MATH 259 or HONS 217

MATH 341 Modern Geometry

credit(s): 3

Axiomatic systems for, and selected topics from, Euclidean geometry, projective geometry, and other non-Euclidean geometries. Special attention will be given to the needs of the individuals preparing to teach at the secondary level. Fall, even years.

Prerequisite(s): MATH 259

MATH 350 Numerical Methods

credit(s): 3

An introduction to approximating solutions to problems arising in applied mathematics and science. Topics include solving linear systems, root-finding, interpolations, regression, numerical integration and differentiation, and initial value problems. Computer programming will be an integral component of the class. Fall.

Prerequisite(s): MATH 258

MATH 351 Combinatorics and Graph Theory

credit(s): 3

An introduction to combinatorics and graph theory with topics taken from counting techniques, generating functions, combinatorial designs and codes, matchings, directed graphs, paths, circuits, connectivity, trees, planarity, and colorings. Fall, odd years.

Prerequisite(s): MATH 231 or MATH 301

MATH 360 Selected Topics

credit(s): 1-3

Course repeatable for 6 credit.

Various areas of pure and applied mathematics presented at a level accessible to those just completing calculus. Upon sufficient demand.

MATH 361 Selected Topics

credit(s): 1-3

Course repeatable for 6 credit.

Various areas of pure and applied mathematics presented at a level accessible to those just completing calculus. Upon sufficient demand.

MATH 362 Selected Topics

credit(s): 1-3

Course repeatable for 9 credit.

Various areas of pure and applied mathematics presented at a level accessible to those just completing calculus. Upon sufficient demand.

MATH 363 Selected Topics **credit(s): 1-3**

Course repeatable for 6 credit.

Various areas of pure and applied mathematics presented at a level accessible to those just completing calculus. Upon sufficient demand.

MATH 365 Math Seminar **credit(s): 1**

for 1 credit.

This seminar is intended to expose students with a calculus background to a wide variety of interesting topics and applications in mathematics. The goal of this seminar is to help students discover and explore topics in mathematics, not typically covered in a classroom setting. A weekly guest lecturer will present a topic or activity and invite questions and participation from the class. Guest lecturers may be faculty, students who have performed independent research, or guests from the community. Spring

Fulfills the following degree requirement(s): MATH - Ind Study/Small Group

Prerequisite(s): MATH 258

MATH 390 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

Fulfills the following degree requirement(s): MATH - Ind Study/Small Group

MATH 413 Real Analysis I **credit(s): 3**

This proof-based course provides a rigorous treatment of the real number system, the topology of the real line, sequences and series of numbers and functions, continuity of functions, differentiation, and the Riemann integral. Spring and Fall, even years.

Prerequisite(s): MATH 301

MATH 414 Real Analysis II **credit(s): 3**

Continuation of MATH 413 with topics chosen from Lebesgue theory, metric spaces, function spaces, and multivariable calculus. Spring, odd years.

Prerequisite(s): MATH 413

MATH 417 Complex Variables **credit(s): 3**

An introduction to complex numbers and functions of one complex variable. Topics include the geometry and algebra of complex numbers, elementary functions, analytic functions, integration on the complex plane, Taylor and Laurent expansions, and the calculus of residues. Other topics selected from conformal mappings, integral transforms and inversion formulas, harmonic functions, and winding numbers, with applications to physical problems. Spring, even years.

Prerequisite(s): MATH 301

MATH 421 Probability Theory **credit(s): 3**

A mathematical treatment of the laws of probability with emphasis on those properties fundamental to mathematical statistics. General probability spaces, combinatorial analysis, random variables, conditional probability, moment generating functions, Bayes' law, distribution theory, and law of large numbers. Fall.

Prerequisite(s): MATH 301 or (MATH 259 & MATH 335) or (MATH 259 & MATH 339) or (MATH 259 & MATH 351)

MATH 422 Mathematical Statistics **credit(s): 3**

An examination of the mathematical principles underlying the basic statistical inference techniques of estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance. Spring, even years.

Prerequisite(s): MATH 421

MATH 423 Stochastic Processes **credit(s): 3**

An introduction to random processes and their applications in scientific inquiry, including discrete and continuous time probability models, Markov chains, Poisson processes, random walks, and simulation techniques. Additional topics selected from: queuing theory, branching processes, reliability theory, and Brownian motion. Spring, odd years.

Fulfills the following degree requirement(s): MATH - Applied Math Elective

Prerequisite(s): MATH 421

MATH 425 Applied Statistical Models **credit(s): 3**

The course covers a wide range of statistical models including simple and multiple linear regression for quantitative and qualitative variables, logistic regression, log-linear models, models for rates (Poisson regression), and non-linear regression models. Inferences and model adequacy checking, model selection, and validation will be covered. The emphasis is on the practical application of these methods using statistical software. Fall, even years.

Prerequisite(s): MATH 321 or MATH 422

MATH 426 Experimental Design **credit(s): 3**

This course covers ANOVA models without and with interactions, randomized block, Latin square, factorial, confounded factorial, balanced incomplete block, other designs. Working with simple linear regression models, random and mixed-effects models, response surface methodology are covered. The emphasis is on how to plan, design, and conduct experiments efficiently and effectively, and analyze the resulting data using statistical software. Fall, odd years.

Prerequisite(s): MATH 321 or MATH 422

MATH 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

This course does not meet major or minor requirements.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

MATH 437 Abstract Algebra I **credit(s): 3**

A detailed examination of topics chosen from groups, rings, integral domains, Euclidean domains, unique factorization, fields, Galois theory, and solvability by radicals. Spring and Fall, odd years.

Prerequisite(s): MATH 301

MATH 438 Abstract Algebra II **credit(s): 3**

Continuation of MATH 437. Spring, even years.

Prerequisite(s): MATH 437

MATH 440 Foundations of Applied Math **credit(s): 3**

This course introduces advanced foundational techniques used to solve problems arising in applied mathematics, science and engineering. Topics include dimensional analysis and scaling, mathematical modeling, perturbation methods, and asymptotic expansions. Additional topics may include the calculus of variations, similarity methods, integral transforms, Fourier series, special functions, and the derivation of models from conservation laws and constitutive equations; other topics may be selected at the discretion of the instructor. Fall, odd years.

Fulfills the following degree requirement(s): MATH - Applied Math Elective, MATH - Math Elective

Prerequisite(s): MATH 260, minimum grade: C-

MATH 450 Selected Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Possible topics include combinatorics, topology, number theory, advanced numerical analysis, advanced linear algebra, theory of computation and complexity, and history of mathematics.

Credit by arrangement. Upon sufficient demand.

MATH 451 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Possible topics include combinatorics, topology, number theory, advanced numerical analysis, advanced linear algebra, theory of computation and complexity, and history of mathematics.

Credit by arrangement. Upon sufficient demand.

MATH 452 Selected Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Possible topics include combinatorics, topology, number theory, advanced numerical analysis, advanced linear algebra, theory of computation and complexity, and history of mathematics.

Credit by arrangement. Upon sufficient demand.

MATH 453 Selected Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Possible topics include combinatorics, topology, number theory, advanced numerical analysis, advanced linear algebra, theory of computation and complexity, and history of mathematics.

Credit by arrangement. Upon sufficient demand.

MATH 454 Partial Differential Equations **credit(s): 3**

Solutions of boundary value problems with applications to heat flow, wave motion, and potential theory. Topics include derivation of the heat, wave, and Laplace's equations, orthogonal sets of functions, Fourier series, Sturm-Liouville theory, separation of variables, integral transforms, the method of characteristics, and extensions to higher dimensions and

non-Cartesian coordinate systems. Additional topics may include numerical methods, inverse methods, and nonlinear equations. Spring.

Prerequisite(s): MATH 260, minimum grade: C-

MATH 455 Chaos and Discrete Dynamical Systems credit(s): 3

Introduction to the study of one-dimensional discrete-time nonlinear systems and their potential for chaotic behavior. The course will focus on investigations through computer experiments - numerical and graphical - and the mathematical analysis of the observed behavior. Students are expected to write code in at least one high-level language. Topics include orbit analysis, fixed and periodic points, graphical analysis, bifurcations, symbolic dynamics, chaos, and fractals. Additional topics selected from dynamics in the complex plane, higher dimensional maps, numerical computation of Lyapunov exponents, fractal dimension, Sarkovskii's theorem, and chaos control. Spring, even years.

Equivalent(s): CPSC 455

Prerequisite(s): (CPSC 121, minimum grade: C and MATH 350) or (MATH 231, minimum grade: C and CPSC 122)

MATH 457 Number Theory and Cryptography credit(s): 3

Elementary number theory topics including modular arithmetic, Diophantine equations, multiplicative functions, factorization techniques, primality testing, and development of the public key code. Additional topics may be included. Fall, even years.

Prerequisite(s): MATH 301

MATH 459 Topology credit(s): 3

Topics selected from the following: Metric spaces, manifolds, general topological spaces. Sequences, continuous functions, homeomorphisms. The separation axioms, connectedness, compactness. The theory of surfaces. Knot theory. Topics from combinatorial topology, algebraic topology, differential topology. Other topics to be determined by the instructor. Spring, odd years.

Prerequisite(s): MATH 301

MATH 462 Nonlinear Systems and Chaos credit(s): 3

A study of nonlinear ordinary differential equations and systems of such equations, with a focus on approaching problems geometrically. Topics include phase space, equilibrium solutions, bifurcations, stability analysis, limit cycles, chaos, fractals, and strange attractors; other topics may be selected at the discretion of the instructor. Applications to problems in biology, chemistry, physics, engineering and other fields will be explored. Fall, even years.

Prerequisite(s): MATH 260, minimum grade: C-

MATH 490 Directed Reading credit(s): 0-4

Course repeatable for 6 credit.

Selected topics in mathematics.

Fulfills the following degree requirement(s): MATH - Ind Study/Small Group

Restriction(s):

Must be the following Class(es): Senior

MATH 494 Topics in Actuarial Science **credit(s): 1**

This course explores the application of mathematics to solving actuarial science problems. Course material is intended to help students prepare for the probability and financial math actuarial exams. Spring upon sufficient demand.

Prerequisite(s): MATH 421, minimum grade: C- and ECON 352L, minimum grade: C-

MATH 496 Comprehensive - Applied Math **credit(s): 1**

A comprehensive survey of applied mathematics and its connections with various technical disciplines. Students will gain experience with both written and oral communication while reviewing a breadth of mathematical topics and exploring interdisciplinary applications. Students will be required to take the Educational Testing Service's Major Field Test in Mathematics. Required of all Applied Mathematics majors in their final year. Fall.

Restriction(s):

Must be the following Class(es): Senior

MATH 497 Mathematics Internship **credit(s): 0-6**

Special program for Mathematics majors.

Fulfills the following degree requirement(s): MATH - Ind Study/Small Group

Restriction(s):

Must be the following Class(es): Senior

MATH 498A Thesis I **credit(s): 1**

This course provides the motivated student with the opportunity to conduct an independent research project under the direction of a Mathematics Department faculty member. Rigorous research and study of advanced material with a significant technical writing component. Contingent on the student finding a faculty member in the Department of Mathematics who is willing to serve as a mentor. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): MATH 301, minimum grade: C

MATH 498B Thesis II **credit(s): 2**

Continuation of MATH 498A, culminating in a written thesis. Students are expected to present their work at a conference. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): MATH 498A, minimum grade: B

MATH 499 Comprehensive - Math **credit(s): 1**

A comprehensive survey of mathematics. Students will gain experience with both written and oral communication of mathematics while reviewing a breadth of mathematical topics. Students will be required to take the Educational Testing Service's Major Field Test in Mathematics. Required of all Mathematics majors in their final year. Fall.

Restriction(s):

Must be the following Class(es): Senior

Modern Languages and Literature

Chairperson: Benjamin Semple

Professors: G. Brooke (Emerita), L. García-Torvisco, T. Haaland, C. Isabelli, R. Marquis, B. Semple, R. Stephanis

Associate Professors: F. Kuester (Emerita), S. Nedderman (Emerita), A. Schumacher

Assistant Professors: L. Dubois

Senior Lecturers: D. Birginal, K. Bishop, U. Perz

Lecturers: A. García Osorio

The department offers two majors and four minors:

Bachelor of Arts, French major

Bachelor of Arts, Spanish major

Minor in French

Minor in German

Minor in Spanish

Minor in Italian

The Department of Modern Languages and Literature offers the Bachelor of Arts degree with majors in French and Spanish, and cooperates in offering majors and minors in Italian studies, Latin American studies, European studies and Asian studies. All language majors are encouraged to become proficient in a foreign language through study abroad. All language majors take a comprehensive exam, write a thesis, or engage in a capstone experience; content varies by language. Majors need a minimum of 19 credits (French) or 25 credits (Spanish) at the 300 level or above.

Minors are available in French, German, Italian, and Spanish. Regional concentrations in Africa, Asia, Europe, Latin America, and the Middle East, which are part of the International Studies major, are fully described under International Studies. The Italian Studies major and minor are described under Italian Studies. Since the effective availability of upper level courses offered on the main Spokane campus will at times be contingent upon enrollment, completion of the Italian minor may require participation in study abroad programs and/or enrolling in summer courses.

Gonzaga also offers programs of study (year or semester) in multiple areas around the world and courses may be transferred to Gonzaga and applied to the major and minor requirements. These include Gonzaga-in-Florence, Italy, and Granada, Spain; and often offers a summer intensive program in Gonzaga-in-Cuernavaca, Mexico and Gonzaga-in-Graz, Austria. Gonzaga also accepts courses from several sponsored programs in Argentina, Austria, Chile, China, Colombia, France, Japan, Jordan, and Spain.

French

The Department of Modern Languages and Literature offers a major and minor in French.

B.A. Major in French: 35 Credits

Lower Division

FREN 101 Elementary French I	4 credits
FREN 102 Elementary French II	4 credits
FREN 201 Intermediate French I	4 credits
FREN 202 Intermediate French II	4 credits

Upper Division

Choose one course in literature: 3 credits

- FREN 323 Le Paris des contrastes
- FREN 327 Introduction to Existentialism

Choose one course in cinema: 3 credits

- FREN 331 Contemporary French Cinema

Choose one course in culture/civilization: 3 credits

- FREN 340 La France d'aujourd'hui
- FREN 350 French Civilization and Culture

FREN 300/400 level electives 6 credits

FREN 499 French Comprehensive 1 credit

FREN 495 Senior Seminar 3 credits

In order to reach the level of linguistic and cultural proficiency required for the French major, most students should expect to study abroad. They may do so through participation either in the programs in Paris or Aix-en-Provence or in another approved study abroad program. French minors are strongly encouraged to study abroad for a year, a semester, or in an approved summer program.

Minor in French: 28 Credits (or 12 credits at the 300 level and above)

Lower Division

Elementary Level (6 credits for Italian minors) 6-8 credits

Intermediate Level 8 credits

Upper Division

FREN Electives 12 credits

Special Topics in Language Courses

With approval of the Departmental Chair, students may study a language abroad (in a university approved program) not offered at Gonzaga and transfer these credits to Gonzaga.

German

The Modern Languages and Literature Department offers a minor in German.

Minor in German: 28 Credits (or 12 credits at the 300 level and above)

Lower Division

Elementary Level (6 credits for Italian minors) 6-8 credits

Intermediate Level 8 credits

Upper Division

GERM Electives 12 credits

Special Topics in Language Courses

With approval of the Departmental Chair, students may study a language abroad (in a university approved program) not offered at Gonzaga and transfer these credits to Gonzaga.

Italian

The Department of Modern Languages and Literature offers a minor in Italian.

Minor in Italian: 26 Credits
(or 12 credits at the 300 level and above)

Lower Division

Elementary Level 6 credits

Intermediate Level 8 credits

Upper Division

ITAL Electives 12 credits

All Italian minor credits must be from courses taught in Italian.

Special Topics in Language Courses

With approval of the Departmental Chair, students may study a language abroad (in a university approved program) not offered at Gonzaga and transfer these credits to Gonzaga.

Spanish

The Department of Modern Languages and Literature offers a major and minor in Spanish.

B.A. Major in Spanish: 37 Credits
or 25 credits at the 300 level and above

Lower Division

SPAN 102 Elementary Spanish II 4 credits

SPAN 201 Intermediate Spanish I 4 credits

SPAN 202 Intermediate Spanish II 4 credits

Upper Division

SPAN 301 Advanced Spanish I 3 credits

SPAN 320 Advanced Spanish II 3 credits

SPAN 302-399 6 credits

(only 3 credits from SPAN 302-319 can count towards the major.)

SPAN 400 - 489 * 3 credits
SPAN 321-489* 9 credits

* (pre-requisite: one course from SPAN 321-399)

SPAN 499 Senior Capstone** 1 credit

**Cannot be taken abroad. Pre-requisite: 12 credits SPAN 321-489

Minor in Spanish: 27 Credits (or 15 credits at the 301 and above)

Lower Division

SPAN 102 Elementary Spanish II 4 credits

SPAN 201 Intermediate Spanish I 4 credits

SPAN 202 Intermediate Spanish II 4 credits

Upper Division

SPAN 301 Advanced Spanish I 3 credits

SPAN 320 Advanced Spanish II 3 credits

SPAN 300 - 498 Electives ** **While students may elect to take courses between SPAN 302-319, only three credits can count towards the minor. For 400's 9 credits see prerequisite.**

Special Topics in Language Courses

With approval of the Departmental Chair, students may study a language abroad (in a university approved program) not offered at Gonzaga and transfer these credits to Gonzaga.

Courses:

Arabic

ARAB 101 Elementary Arabic I credit(s): 4

Arabic 101 is a beginning level course primarily for students with little, if any, prior knowledge of Modern Standard Arabic. Arabic 101 introduces grammar, vocabulary, reading, speaking and writing activities, as well as cultural topics. The course stresses communication using both formal and informal Arabic and exposes the students to the diversity and social issues of the Arab-speaking world. It develops the ability to read, speak, listen and write in Arabic through the consideration of cultural themes, language functions, and authentic situations. The weekly class meetings will be dedicated to meaningful oral use of the language in order to foster acquisition and proficiency. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the novice level according to the ACTFL guidelines. Offered occasionally, when there is sufficient student interest. Taught in Arabic.

ARAB 102 Elementary Arabic II **credit(s): 4**

This course is designed to further introduce students to basic Arabic language skills and give them an insight into the many aspects of Arabic-speaking countries and their culture. Students will be able to apply creative as well as analytic thinking skills by exploring a foreign language and its cultural idiosyncrasies. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the novice level according to the ACTFL guidelines. Offered occasionally, when there is sufficient student interest. Taught in Arabic.

Prerequisite(s): ARAB 101

ARAB 201 Intermediate Arabic I **credit(s): 4**

Arabic 201 is designed to further strengthen and expand basic language skills in Arabic. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the intermediate low level according to the ACTFL guidelines, in addition to developing students' intercultural competencies. Offered occasionally, when there is sufficient student interest. Taught in Arabic.

Prerequisite(s): ARAB 102

ARAB 202 Intermediate Arabic II **credit(s): 4**

Arabic 202 is designed to further strengthen and expand students' language skills in Arabic. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the intermediate level according to the ACTFL guidelines, in addition to developing students' intercultural competencies. Offered occasionally, when there is sufficient student interest. Taught in Arabic.

Prerequisite(s): ARAB 201

ARAB 290 Directed Study **credit(s): 1-4**

Course repeatable 3 time.

Topic to be determined by professor and approved by the Department Chair. Taught in Arabic.

ARAB 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional experience in a setting related to the Arabic-speaking community in which Arabic is used. Student is responsible to find an appropriate internship and to present a plan (description, objectives, proposed assessment) to the Department Chair for approval. Taught in Arabic.

Prerequisite(s): ARAB 202

Chinese

CHIN 101 Elementary Chinese I **credit(s): 4**

Fundamentals of standard Chinese, emphasizing culture as well as the four language skills: speaking, listening, reading and writing. Systematic methods and various communication activities for basic training in pronunciation, grammatical structures, conversation on daily topics, and the writing system. Ten hours of conversational language time with students in small groups (held outside of class time) required. This course is only offered through the Gonzaga/Whitworth Classroom Exchange when there is sufficient student interest, and/or study abroad opportunities. Department Chair approval required. Taught in Chinese.

CHIN 102 Elementary Chinese II credit(s): 4

Second-year course in modern Chinese to develop proficiency in all four language skills: speaking, listening, reading and writing. In addition to the basic conversational topics, students will be taught to use the dictionary, will be exposed to both traditional and simplified characters, and will read and write longer discourses ranging from personal letters to short narratives. Students will also learn to use Chinese word processing. Ten hours of conversational language time with students in small groups (held outside of class time) required. This course is only offered through the Gonzaga/Whitworth Classroom Exchange, when there is sufficient student interest, and/or study abroad opportunities. Department Chair approval required. Taught in Chinese.

Prerequisite(s): CHIN 101

CHIN 201 Intermediate Chinese I credit(s): 4

Credit for Chinese language is given to students through the Gonzaga/Whitworth Classroom Exchange, when there is sufficient student interest, and/or study abroad opportunities. Department Chair approval required. Taught in Chinese.

Prerequisite(s): CHIN 102

CHIN 202 Intermediate Chinese II credit(s): 4

Continuation of Chinese 201. Ten hours of conversational language time with students in small groups (held outside of class time) required. This course is only offered through the Gonzaga/Whitworth Classroom Exchange, when there is sufficient student interest, and/or study abroad opportunities. Department Chair approval required. Taught in Chinese.

Prerequisite(s): CHIN 201

CHIN 290 Directed Study credit(s): 1-4

Course repeatable for 12 credit.

Topic to be determined by professor. This course is only offered through study abroad opportunities. Department Chair approval required. Taught in Chinese.

CHIN 301 Advanced Chinese I credit(s): 3 or 4

Available only through sponsored Study Abroad programs. Taught in Chinese.

Prerequisite(s): CHIN 202

CHIN 303 Conversation and Composition credit(s): 3

Available only through sponsored Study Abroad programs. Taught in Chinese.

CHIN 390 Directed Study credit(s): 1-3

Available only through sponsored Study Abroad programs. Taught in Chinese.

Philipino

FILI 101 Elementary Filipino I credit(s): 4

This course is designed to introduce students to elementary Filipino language skills and give them an insight into the many aspects of the cultures of the Philippines. This course provides instruction and practice with writing, reading, speaking, and listening. Students are expected to achieve novice-mid level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. This course is taught in Filipino. Offered in the Fall.

FILI 102 Elementary Filipino II**credit(s): 4**

Filipino 102 integrates a multidisciplinary approach in learning Philippine culture, history, heritage, politics, geography, and the Filipino language. As it engages students in Filipino culture, it also explores famous and significant Filipino literature, music, arts, food, film and entertainment, indigenous games, and popular culture. Students are provided with the opportunity to learn about the Philippines as a nation and the strong sense of Filipino pride while creating space and spirit of classroom community through the Filipino values and aspirations. Aside from practicing the macro skills, students are developed with intercultural competency and cultural fluency in appreciating and learning the multicultural and multilingual landscape of the Filipino identity and heritage. Further, students are given learning opportunities to demonstrate knowledge and awareness of social practices and the cultural system of the Filipino-speaking world.

Prerequisite(s): FILI 101, minimum grade: C

French**FREN 101 Elementary French I****credit(s): 4**

Introduction to French for students with no previous study of the language. Students learn basic tasks such as introducing themselves and meeting others, giving personal information, describing their schedule. Practice in the four skills of speaking, listening, reading and writing. The focus is on language acquisition, with some exposure to aspects of French and Francophone cultures. Fall.

FREN 102 Elementary French II**credit(s): 4**

For students who have completed French 101 or the equivalent. The goal of the course is to enable students to progress from novice to intermediate level proficiency in the four language skills of speaking, listening, reading and writing. Students learn to provide more information about themselves and to accomplish more daily tasks. The focus is on language acquisition, and students also are introduced to some basics of French and Francophone cultures. Spring.

Prerequisite(s): FREN 101

FREN 190 Directed Study**credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be determined by faculty.

FREN 201 Intermediate French I**credit(s): 4**

For students who have completed French 102 or the equivalent. The goal of the course is to reinforce the fundamentals of grammar and syntax and to build proficiency in the four skills of speaking, listening, reading and writing. Students will be able to perform many communicative tasks by the end of the semester. A further goal of the course is to increase awareness of French and Francophone cultures. Fall.

Prerequisite(s): FREN 102

FREN 202 Intermediate French II**credit(s): 4**

For students who have completed French 201 or the equivalent. The goal of the course is to strengthen the skills of speaking, listening, reading and writing in order to enable students to perform a larger number of communicative tasks. Lessons are conducted entirely in French for better immersion in the language. Additional goals of the course are to increase awareness of

French and Francophone cultures, and to initiate students into the reading and interpretation of more challenging texts (short pieces of literature). Spring.

Fulfills the following degree requirement(s): Core: Global Studies

Prerequisite(s): FREN 201

FREN 280 Special Topics **credit(s): 1-3**

By arrangement.

FREN 290 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be determined by faculty.

FREN 300 Advanced Grammar Review **credit(s): 3**

An intensive one-semester grammar course with extensive oral practice. Fall.

Prerequisite(s): FREN 202-399, 1 course

FREN 301 Advanced French I **credit(s): 3**

Short stories, plays, novels, or essays by modern authors, with grammar and conversation based on the texts studied. Practice in phonetics where needed. Available only through sponsored study abroad programs.

Prerequisite(s): FREN 201

FREN 302 Advanced French II **credit(s): 3**

Continuation of FREN 301. A greater emphasis on composition and advanced style. Available only through sponsored study abroad programs.

Prerequisite(s): FREN 301

FREN 303 Advanced Language Practice I **credit(s): 3**

Oral and written comprehension, oral and written expression, grammar, vocabulary. Basics of phonetics. Culture and civilization. Available only through sponsored study abroad programs.

FREN 304 Advanced Language Practice II **credit(s): 3**

A continuation of FREN 303. Available only through sponsored study abroad programs.

FREN 315 Advanced French Conversation **credit(s): 3**

Intensive practice in oral French. Study of vocabulary, grammar, and pronunciation through discussion of cultural topics.

Prerequisite(s): FREN 300-399, 1 course

Must be the following Class(es): Junior, Senior, Sophomore

FREN 365 French Politics **credit(s): 3**

A study of the French political system, its parties, elections, and how the system works in the new European order. Available only through sponsored study abroad programs.

FREN 380 Special Topics **credit(s): 1-3**

Course repeatable for 20 credit.

Selected topics in French language, literature or civilization.

Prerequisite(s): FREN 300-399, 1 course

FREN 390 Directed Study **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by faculty.

FREN 415 Business French **credit(s): 3**

Offered Abroad.

FREN 491 Directed Reading **credit(s): 1-3**

Course repeatable for 12 credit.
Selected readings by arrangement.

FREN 495 Senior Seminar **credit(s): 3**

The major French writers by genre. Fall.

Prerequisite(s): FREN 323 or FREN 327

FREN 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional experience in a supervised organizational setting allowing for the applied use of skills in French language and/or knowledge of Francophone cultures. An internship plan (description, objectives, learning outcomes) is devised with a French program faculty member before the internship begins.

Restriction(s):

Must be the following Class(es): Junior, Senior

FREN 499 French Comprehensive **credit(s): 1**

Required of all French majors in their fourth year.

Restriction(s):

Must be the following Class(es): Senior

German

GERM 101 Elementary German I **credit(s): 4**

This course is designed to introduce students to basic German language skills and give them an insight into the many aspects of German-speaking countries and their culture. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the novice level according to the ACTFL guidelines.

GERM 102 Elementary German II **credit(s): 4**

This course is designed to further introduce students to basic German language skills and give them an insight into the many aspects of German-speaking countries and their culture. Students will be able to apply creative as well as analytic thinking skills by exploring a foreign language and its cultural idiosyncrasies. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the novice level according to the ACTFL guidelines.

Prerequisite(s): GERM 101

GERM 103 Intensive Introductory German **credit(s): 4**

This accelerated language course is designed to introduce students with previous German or other foreign language experience to basic German language skills and give them an insight into the many aspects of German speaking countries and their culture.

GERM 201 Intermediate German I **credit(s): 4**

German 201 is designed to further strengthen and expand basic language skills in German. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the intermediate low level according to the ACTFL guidelines, in addition to developing students' intercultural competencies.

Prerequisite(s): GERM 102

GERM 202 Intermediate German II credit(s): 4

German 202 is designed to further strengthen and expand students' language skills in German. This course provides extensive practice with writing, reading, speaking, and listening proficiency at the intermediate level according to the ACTFL guidelines, in addition to developing students' intercultural competencies.

Fulfills the following degree requirement(s): Core: Global Studies

Prerequisite(s): GERM 201

GERM 290 Directed Study credit(s): 1-4

Topics to be determined by faculty.

GERM 301 Advanced German credit(s): 3

This course is designed for students at the advanced level according to ACTFL guidelines and provides intensive practice in written and spoken German through the discussion and analysis of short stories and literary texts in their social, cultural, and historical context. Additionally, students work on reviewing and practicing grammatical structures and new vocabulary in hands-on exercises. This course also focuses on 1) the inclusion of supporting documentation and references to support conclusions, 2) editing, 3) grammatical points, 4) introduction to MLA style guidelines and 5) interpreting complex reading passages.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): GERM 202

GERM 305 German Conversation credit(s): 3

Course repeatable for 9 credit.

Modern texts are the basis for structured conversations within a correct grammatical framework.

Prerequisite(s): GERM 202

GERM 306 German Youth Literature credit(s): 3

This course focuses on popular texts written for children and young adults. Advanced grammar will be part of the course.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): GERM 202

GERM 307 Contemporary Issues credit(s): 3

Reading and discussion of current social, political, economic and environmental issues of German speaking countries as represented by their media.

Prerequisite(s): GERM 202

GERM 308 German Conversation 2 credit(s): 3

This course provides an intensive practice in spoken German through guided conversation and discussion of contemporary topics for students at an intermediate/advanced level. Students additionally review advanced grammatical structures and new vocabulary in hands on exercises. This course is offered every other summer during the Gonzaga-in-Graz study abroad program.

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): GERM 202

GERM 320 Austrian Culture (German) credit(s): 3

This course introduces students at an intermediate/advanced level to the fundamentals of Austrian culture. This course further provides an intensive practice in spoken and written German through guided conversation and discussion of contemporary topics relevant to Austria. This course has global studies designation. This course is offered during the Gonzaga-in-Graz study abroad summer program.

Fulfills the following degree requirement(s): Core: Global Studies

Prerequisite(s): GERM 202

GERM 322 Austrian Culture (English) credit(s): 3

This course introduces students to the fundamentals of Austrian culture and contemporary topics relevant to Austria. This course has a global studies designation. This course is offered as needed.

Fulfills the following degree requirement(s): Core: Global Studies

GERM 328 20th-Century Short Prose credit(s): 3

Prerequisite(s): GERM 301

GERM 330 Literary Genres credit(s): 3

A study of examples of the major literary forms (prose, drama, and poetry) in their historical context.

Prerequisite(s): GERM 202

GERM 331 German Cinema (German) credit(s): 3

This course looks at contemporary films from German-speaking countries to explore historical, social, and cultural issues as well as questions of national identity. Students learn about the beginnings of German language movies and demonstrate an awareness of cinematographic features when analyzing different samples of German language films. This course is offered every other Spring semester. Taught in German.

Prerequisite(s): GERM 202

GERM 332 German Cinema (English) credit(s): 3

This course looks at contemporary films from German-speaking countries to explore historical, social, and cultural issues as well as questions of national identity. Students learn about the beginnings of German language movies and demonstrate an awareness of cinematographic features when analyzing different samples of German language films. This course is offered as needed. Taught in English.

GERM 380 Special Topics credit(s): 0-4

Course repeatable 6 time.

Topic to be determined by professor.

Prerequisite(s): GERM 202

GERM 390 Directed Study credit(s): 1-4

Course repeatable for 8 credit.

Specific topic determined by professor.

GERM 480 Seminar credit(s): 3

Course repeatable for 6 credit.

Specific topic determined by professor.

GERM 497 Internship**credit(s): 0-6**

Course repeatable for 6 credit.

Professional experience in a supervised organizational setting allowing for the applied use of skills in German language and/or knowledge of German-speaking cultures. A maximum of three credits, with approval of the Department Chair, can be applied as upper division elective credits for the German minor.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Italian**ITAL 101 Elementary Italian I****credit(s): 3**

This course is designed to introduce students to elementary Italian language skills and give them an insight into the many aspects of Italy and its cultures. This course provides practice with writing, reading, speaking, and listening. Students are expected to achieve novice-mid level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to recall facts and basic concepts. This course is taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

ITAL 101L Elementary Italian I Lab**credit(s): 0-1**

Taken only in conjunction with ITAL 101 when taken in Florence, Italy.

Corequisite(s): ITAL 101

ITAL 102 Elementary Italian II**credit(s): 3**

This course is designed to further introduce students to elementary Italian language skills and give them an insight into the many aspects of Italy and its cultures. This course provides extensive practice with writing, reading, speaking, and listening. Students are expected to achieve novice-high level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to draw connections among ideas and engage the present, the past and the future tenses. This course is taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 101

ITAL 102L Elementary Italian II Lab**credit(s): 0 or 1**

Taken only in conjunction with ITAL 102 when taken in Florence, Italy.

Corequisite(s): ITAL 102

Prerequisite(s): ITAL 101

ITAL 105 Elementary Italian Convers I**credit(s): 3**

Students learn to use the language in a variety of everyday situations through focused practice in class and organized encounters with native speakers of Italian. Does not fulfill the College of Arts and Sciences Language requirement.

Prerequisite(s): ITAL 101

ITAL 106 Elementary Italian Convers II**credit(s): 3**

A continuation of ITAL 105. Vocabulary and grammar presented in Italian 102 are reinforced. Does not fulfill the College of Arts and Sciences Language requirement.

Prerequisite(s): ITAL 102

ITAL 190 Directed Study **credit(s): 1-4**

Topic to be determined by professor.

ITAL 201 Intermediate Italian I **credit(s): 4**

This course is designed to further strengthen and expand language skills in Italian. This course provides extensive practice with writing, reading, speaking, and listening. Students will develop intermediate-mid level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to draw connections among and evaluate ideas and to engage the past, the present and the future tenses in addition to the imperative and the conditional modes. This course is taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 102

ITAL 202 Intermediate Italian II **credit(s): 4**

This course is designed to further strengthen and expand students' language skills in Italian. This course provides extensive practice with writing, reading, speaking, and listening. Students will develop intermediate-high level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to explore ideas by creative analytic thinking while engaging the past, the present and the future tenses in addition to the imperative, the conditional and the subjunctive modes. This course is taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 201

ITAL 290 Directed Study **credit(s): 1-4**

Course repeatable for 8 credit.

Topic to be determined by faculty.

ITAL 301 Advanced Italian I **credit(s): 3**

Advanced review of grammatical structures through conversation, readings, compositions and oral comprehension. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 302 Advanced Italian II **credit(s): 3**

Course repeatable 1 time.

Advanced review of grammatical structures through conversation, readings, presentations and oral comprehension. Can be taken alone or as a continuation of ITAL 301. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 303 Survey of Italian Literature I **credit(s): 3**

An overview of Italian literature from the age of Dante through the Renaissance, including Petrarch, Boccaccio and Machiavelli. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 304 Survey: Italian Literature II **credit(s): 3**

An overview of Italian literature from the Renaissance through contemporary times. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 306 Advanced Conversation

credit(s): 3

Advanced conversation for students returning from Florence. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 307 Conv Approach to Contemporary Issue

credit(s): 3

A course designed for those who wish to continue to improve their conversational skills. Course taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 308 Italian through Film

credit(s): 3

This course uses Italian films to help students improve language proficiency and deepen their understanding of Italian history and culture. Italian cinema closely reflects national culture and each film in the course is chosen for its focus on one or more aspects of Italian society.

Preparation for viewing includes background reading, thematic discussions and vocabulary building exercises. Course taught in Italian. Offered in Florence only.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 313 The World of Dante

credit(s): 3

In this course, students will engage with the history, philosophy, art, politics, and poetics of the Middle Ages through a close reading of Dante Alighieri's *Commedia*, *Vita Nova*, and other period texts. The course will also briefly consider the monumental cultural heritage that Dante's poem has and continues to produce. In class discussions, students will be expected to know, discuss, and offer interpretations of the text through their own reading and preparation based on notes provided by the instructor. Course will emphasize close reading of primarily poetic texts. This course is taught in English.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec, Core: Literature

Restriction(s):

Must be the following Class(es): Junior, Senior

ITAL 314 Fascism in Film and Literature

credit(s): 3

This class examines the way fascism is presented in selected novels and films. An important objective of the course is to study the impact of Fascism on segments of the Italian population which did not conform to fascist ideals. Taught in English.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 315 The Italian Cinema

credit(s): 3

This course engages a selection of contemporary Italian films to conduct a systematic study of cinematic form, narration and expression. Students will familiarize with the terms and

perspectives required to compose structured and argumentative analyses according to norms of academic writing. Taught in English.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec, Core: Literature

Equivalent(s): INST 416

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

ITAL 316 The Italian Short Story I credit(s): 3

In Italian. The development of the Italian short story from its origin through the Baroque.

Included are stories from the Novellino, the Decameron, the Novelliere, and the Pentameron.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 317 Italian Short Story II credit(s): 3

The Italian short story through the works of the nineteenth and twentieth century authors.

Taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 319 Mafia and Politic Violence-Film/Literature credit(s): 3

Through a study of Italian film, novels and nonfiction, this course will examine the phenomenon of organized crime in Italian society. Taught in English.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): INST 381

ITAL 320 New Immigrants in Film and Literature credit(s): 3

This course will explore the impact of immigration from Third World countries on Italian society through the study of novels, nonfiction and film. Taught in Italian.

ITAL 322 The Italian Historical Novel credit(s): 3

This course will explore the development of the historical novel in Italy with emphasis on modern historical novels. Taught in English.

Prerequisite(s): ITAL 202

ITAL 330 Literary Genres credit(s): 3

A study of examples of the major literary genres (narrative, dramatic, and poetic). Taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 350 Italian Civilization and Culture credit(s): 3

Readings and discussion of various aspects of Italian life such as art, cinema, politics, literature, history, fashions, etc. Taught in Italian.

Fulfills the following degree requirement(s): ITAL - Taught in Italian

Prerequisite(s): ITAL 202

ITAL 363 The Roman Republic credit(s): 3

The political, social and cultural history of Republican Rome from its legendary origins to the Battle of Actium and its de facto end in 31 BC. The course will focus closely on the factors leading to the Republic's successful rise as uncontested Mediterranean ruler as well as the

internal political and social conflicts that brought the Republic crashing down to its ultimate fall. Taught in English.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - History course, CLAS - Rome course, ITAL - Studies upp div elec

Equivalent(s): HIST 305

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): HIST 101 or WGST 271C

ITAL 364 The Roman Empire **credit(s): 3**

The political, social and cultural history of Rome during the age of the Emperors, from Augustus' creation of the principate in 27 B.C. to the decline of the Roman Empire in the west by the 5th century AD. Special focus in this course will be given to the workings of the Imperial system, daily life in Rome and the provinces, the rise of Christianity, and the ultimate transformation of the empire. Taught in English.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - History course, CLAS - Rome course, ITAL - Studies upp div elec

Equivalent(s): CATH 331, HIST 311

ITAL 366 Medieval Europe **credit(s): 3**

Developments in the first flowering of Western European civilization, circa A.D. 500-1350, including feudalism, the rise of representative assemblies, the commercial revolution and the papal monarchy. Taught in English. Gonzaga in Florence only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Equivalent(s): HIST 311

ITAL 367 Renaissance Europe **credit(s): 3**

The history of Western Europe circa 1350-1550, examining the political, religious, social, and economic context for the cultural achievements of the humanists, artists, dramatists, scientists, architects, and educators of the age of Joan of Arc, Michelangelo, the Tudors and the Medici. Taught in English.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, ITAL - Studies upp div elec

Equivalent(s): CATH 332, HIST 312

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

ITAL 380 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Selected topics in Italian language, literature, or civilization.

Prerequisite(s): ITAL 202

ITAL 390 Directed Study **credit(s): 1-3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

ITAL 391 Directed Study **credit(s): 1-3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

ITAL 440 Women in Italian Literature credit(s): 3

This course examines the contribution of women novelists to Italian literature through the discussion of contemporary novels by women. Taught in English.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

ITAL 497 Internship credit(s): 0-6

Course repeatable for 6 credit.

The internship provides students with the opportunity to apply knowledge and skills gained in the Italian classroom with a supervised organizational setting directly related to the student's major area of study. An internship plan (description, objectives, learning outcomes) is devised with an Italian faculty member, and approved by the Director of Italian Studies, before the internship begins.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ITAL 301, minimum grade: B or ITAL 302, minimum grade: B

ITAL 498 Senior Project credit(s): 1

Required of all Italian Studies majors. Permission from the Director of Italian Studies only.

Japanese

JPNE 100 Japanese for Travelers credit(s): 3

Acquisition of useful vocabulary, phrases, sentence patterns for getting around in Japan. The students will acquire cultural understanding for better communication with Japanese speakers. Upon sufficient demand.

JPNE 101 Elementary Japanese I credit(s): 4

Grammar, composition, conversation, and discussion of cultural topics. Mastery of hiragana, katakana, and approximately 50 kanji (Chinese characters). Fall.

JPNE 102 Elementary Japanese II credit(s): 4

A continuation of JPNE 101. 150 kanji in addition to those introduced in JPNE 101. Spring.

Prerequisite(s): JPNE 101

JPNE 190 Directed Study credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by professor. Department Chair approval required.

JPNE 201 Intermediate Japanese I credit(s): 4

Intensive oral work to develop fluency in the language; written composition and reading at the intermediate level. 200 kanji in addition to those introduced in JPNE 102. Offered in the Fall when there is sufficient interest.

Prerequisite(s): JPNE 102

JPNE 202 Intermediate Japanese II credit(s): 4

A continuation of JPNE 201. 200 kanji in addition to those introduced in JPNE 201. Offered in the Spring when there is sufficient interest.

Prerequisite(s): JPNE 201

JPNE 290 Japanese Tutoring credit(s): 1

Course repeatable for 4 credit.

This course is designed to train Japanese language tutors to assist Japanese language learners.

The course focus is on practical experience. Tutors will meet regularly with their pupils.

JPNE 291 Directed Study credit(s): 1-4

Course repeatable for 7 credit.

Topic to be determined by professor. Department Chair approval required.

JPNE 301 Advanced Japanese I credit(s): 3

Intensive oral work to develop fluency in the language; written composition and reading at the advanced level. 200 kanji in addition to those introduced in JPNE 202. Offered occasionally when there is sufficient interest.

Prerequisite(s): JPNE 202

JPNE 302 Advanced Japanese II credit(s): 3

A continuation of JPNE 301. 200 kanji in addition to those introduced in JPNE 301. Offered occasionally when there is sufficient interest.

Prerequisite(s): JPNE 301

JPNE 350 Japanese Culture I credit(s): 3

This course is designed to introduce students to fundamental Japanese culture. Some of the areas covered by this course will be human relations at work and in school, etiquette, customs, traditions and social issues. Taught in English.

Equivalent(s): INST 360

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

JPNE 351 Japanese Culture II credit(s): 3

This course focuses on Japanese values, attitudes and behaviors. The students will learn strategies for communication with Japanese people. Taught in English. Upon sufficient demand.

Equivalent(s): INST 361

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

JPNE 380 Special Topics credit(s): 1-3

Course repeatable for 9 credit.

Selected topics in Japanese language, literature or civilization. Department Chair approval required.

Prerequisite(s): JPNE 202

JPNE 390 Directed Study credit(s): 0-4

Course repeatable for 15 credit.

Topic to be determined by professor. Department Chair approval required.

JPNE 401 Literature and Culture credit(s): 3-8

JPNE 491 Directed Study credit(s): 1-4

Course repeatable for 15 credit.

Selected readings by arrangement. Department Chair approval required.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

JPNE 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional experience in a supervised organizational setting allowing for the applied use of skills in Japanese language and/or knowledge of Japanese-speaking cultures. A maximum of three credits with approval of the Department Chair, can be applied as upper division credits.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Modern Languages

MDLA 190 Elementary Language **credit(s): 0-9**

Course repeatable for 12 credit.

Elementary language learning.

MDLA 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by professor with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

MDLA 290 Intermediate Language **credit(s): 0-9**

Course repeatable for 12 credit.

MDLA 380 Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be determined by the instructor.

MDLA 390 Advanced Language **credit(s): 0-9**

Course repeatable for 12 credit.

MDLA 432 Core Integration Seminar **credit(s): 3**

for 3 credit.1 time.

Topic to be determined by department.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Spanish

SPAN 101 Elementary Spanish I **credit(s): 4**

This course is designed to introduce students to elementary Spanish language skills and give them an insight into the many aspects of Spanish-speaking countries and their cultures. This course provides practice with writing, reading, speaking, and listening. Students are expected to achieve novice-mid level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to recall facts and basic concepts. This course is taught in Spanish. Summer.

SPAN 102 Elementary Spanish II **credit(s): 3 or 4**

This course is designed to further introduce students to elementary Spanish language skills and give them an insight into the many aspects of Spanish-speaking countries and their cultures.

This course provides extensive practice with writing, reading, speaking, and listening. Students are expected to achieve novice-high level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to draw connections among ideas. This course is taught in Spanish. Fall and Spring.

Prerequisite(s): SPAN 101

SPAN 180 Special Topics Beg Level **credit(s): 0-4**

Course repeatable for 12 credit.

Topic to be determined by professor.

SPAN 185 Special Topics Abroad Beg Level **credit(s): 0-6**

Course repeatable for 12 credit.

Topic to be determined by professor.

SPAN 190 Directed Study **credit(s): 1-8**

Course repeatable 4 time.

Topic to be determined by professor.

SPAN 201 Intermediate Spanish I **credit(s): 4**

This course is designed to further strengthen and expand language skills in Spanish. This course provides extensive practice with writing, reading, speaking, and listening. Students will develop intermediate-mid level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to draw connections among ideas and evaluate ideas. This course is taught in Spanish. Fall and Spring.

Prerequisite(s): SPAN 102

SPAN 202 Intermediate Spanish II **credit(s): 3-4**

This course is designed to further strengthen and expand students' language skills in Spanish.

This course provides extensive practice with writing, reading, speaking, and listening. Students will develop intermediate-high level proficiency in these skills according to the ACTFL guidelines, in addition to developing intercultural knowledge and competencies. Students will be able to apply creative as well as analytic thinking skills while exploring ideas. This course is taught in Spanish. Fall and Spring.

Fulfills the following degree requirement(s): Core: Global Studies

Prerequisite(s): SPAN 201

SPAN 206 Spanish Conversation **credit(s): 3**

Development of oral expression in Spanish within a correct grammatical framework.

Prerequisite(s): SPAN 102

SPAN 280 Special Topic Intermediate Level **credit(s): 1-4**

Course repeatable for 12 credit.

By arrangement only. Topic selected by student-professor consultation.

SPAN 281 Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topic selected by professor.

- SPAN 285 Special Topic Abroad Intermediate Level** **credit(s): 0-7**
 Course repeatable for 12 credit.
 Topic determined by professor.
- SPAN 290 Spanish Grammar Review** **credit(s): 3-4**
 Course repeatable for 12 credit.
 Review of Spanish grammar.
- SPAN 291 Directed Study** **credit(s): 1-4**
 Course repeatable for 6 credit.
 Topic to be determined by professor.
- SPAN 301 Advanced Spanish I** **credit(s): 3**
 Advanced grammar. A review of specific grammatical constructions fundamental to effective oral and written communication and proficiency in listening and reading skills through the lens of culture. This course focuses specifically on description, narration, and exposition.
Fulfills the following degree requirement(s): Core: Writing Enriched
Prerequisite(s): SPAN 202
- SPAN 306 Advanced Conversation** **credit(s): 3**
 Designed for those who wish to continue improving their listening and speaking skills.
Prerequisite(s): SPAN 301, minimum grade: C
- SPAN 309 AdvancedSpanish Grammar Review** **credit(s): 3**
 Exploration of and practice with complex grammatical structures in Spanish. This course is designed to consolidate the command of Spanish grammar and vocabulary through oral practice and classroom activities as well as through compositions and written exercises.
Prerequisite(s): SPAN 302
- SPAN 317 Translation: Principles and Practice** **credit(s): 3**
 This course is designed to be an introduction to the history, theory, and practice of translation principally from Spanish to English but also from English to Spanish. The student will learn the fundamentals of translating literary works, letters, legal documents, newspapers, commercial advertisements, and other materials.
Prerequisite(s): SPAN 301, minimum grade: C
- SPAN 318 Medical Spanish and Cultural Competency** **credit(s): 3**
 This course is designed for students planning to work in the health care field and who want to acquire more cultural and linguistic skills in medical Spanish. Students will develop new critical perspectives on health care for Hispanics in the US. Specifically, students will develop medical language skills and cultural competency for health care situations.
Fulfills the following degree requirement(s): HEAL - Electives, SPAN - Culture
Prerequisite(s): SPAN 301, minimum grade: C
- SPAN 319 Special Topic Language AdvancedLevel** **credit(s): 0-6**
 Course repeatable for 12 credit.
 Topic to be determined by professor.
- SPAN 320 Advanced Spanish II** **credit(s): 3**
 Advanced grammar, continuation of SPAN 301. A review of specific grammatical constructions fundamental to effective oral and written communication and proficiency in listening and

reading skills through the lens of culture. This course focuses specifically critical thinking, argumentation and analysis.

Equivalent(s): SPAN 302

Prerequisite(s): SPAN 301, minimum grade: C

SPAN 321 Spanish Medieval-Golden Age Literature credit(s): 3

This survey course is designed to give students a broad understanding of Spanish literature from its origins to the XVIII century. Students will study some key authors, philosophical and literary movements, historical and other elements that have shaped Spanish literary development. Students will also practice presentational and interpersonal oral skills and writing skills, in Spanish, while improving skills in literary analysis.

Fulfills the following degree requirement(s): SPAN - Literature

Equivalent(s): SPAN 303

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 322 Spanish Literature (18th C-21st Century) credit(s): 3

This course presents a panoramic view of the history of modern Spanish literature (from 18th C to the present) in their historical and cultural context through the study in detail of some of the most significant literary works (essay, drama, novel, short story, poetry) of the period.

Fulfills the following degree requirement(s): SPAN - Literature

Equivalent(s): SPAN 304

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 323 Latin American Pre-Hispanic 19th Century Literature credit(s): 3

This course offers an introduction to the literature of the Spanish-speaking Americas. The texts students will read range from pre-Hispanic times until the end of the nineteenth century. During the semester, students will explore the various voices that arise from the Americas and how they present themselves in different genres such as: diary, chronicle, letter, essay, poetry, short story, and novel.

Fulfills the following degree requirement(s): HIST - Non-History elect, Core: Literature, Core: Global Studies

Equivalent(s): INST 316, SPAN 307

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 324 Latin American 19th-21st Century Literature credit(s): 3

This course is designed to introduce students to the major trends and authors of Latin America during the contemporary period, starting at the end of the 19th Century and concluding with present-day works.

Fulfills the following degree requirement(s): HIST - Non-History elect, SPAN - Literature

Equivalent(s): INST 317, SPAN 308

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 325 Introduction to Poetry in Spanish credit(s): 3

This course introduces students to the analytical tools of poetry analysis and provides a general survey of Spanish language poetry from its origins to the 21st century, covering poets from Spain and Latin America. Due to the scope of the material covered in this course, mostly canonical authors will be studied as a means to approach the philosophical and literary

movements, historical and other cultural elements, that have shaped Spanish language literary development.

Fulfills the following degree requirement(s): SPAN - Literature

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): SPAN 320, minimum grade: C or SPAN 302, minimum grade: C

SPAN 328 Survey of Women's Literature

credit(s): 3

Studies and analyzes a range of texts, including narrative fiction, poetry, drama, and/or essays written in Spanish by women writers. Texts may come from Spain and/or Latin America.

Emphasis placed on literature from the 20th and 21st centuries.

Fulfills the following degree requirement(s): SPAN - Literature

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 332 Representing the Rainforest

credit(s): 3

This course examines how the jungle/rainforest ("selva") space is defined in Latin America and how it is represented in literature, film, and photography. The course does not focus on the Brazilian Amazon, but instead examines the representation of Spanish-American jungle spaces, including those found in Argentina, Colombia, Peru, Ecuador, and the Central American isthmus, from the Encounter until present day.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): ENVS 332

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 333 Veins of Gold

credit(s): 3

This course, studies the way in which Spanish America's natural resources have been imagined, described, and narrated textually throughout the history of Spanish America. Through a survey of literary and visual texts, we explore the history of extractivism, environmentalism, and economic engagement in Spanish America. Short stories, poetry, and film are analyzed from within the framework of Latin American critical responses to this history.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): ENVS 333

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 334 Lorca's Body and Contemporary Spain

credit(s): 3

This course is an exploration of the literary corpus of Spanish author Federico García Lorca (1898-1936), as well as a reflection about his legacy and importance in symbolic terms (as a myth or a body of myths) to understand Spanish history and culture. The class, an attempt to find and explore Lorca's body, will center on how Lorca's life and works articulate the quintessential conflict between tradition and modernity in Spain in national, gender, sexual, and ethnic terms; as well as on the importance of Lorca's legacy and mythical status for an understanding of the convoluted history of 20th century Spain, including the recent Law of Historical Memory that has led to several unsuccessful searches for his remains (for his body). The class will focus on a broad selection of written and visual/audio documents by Lorca or about him.

Fulfills the following degree requirement(s): SPAN - Literature

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 340 Spanish Civilization and Culture credit(s): 3

This course provides a general introduction to the history and culture(s) of Spain through an analysis of its social, political, and cultural characteristics from ancient times to the present. Special attention will be paid to Spain's art, music, architecture, social customs, and values.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): SPAN 409

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 341 Latin-American Civilizations and Cultures credit(s): 3

This course offers an introduction to the cultures of the Spanish-speaking Americas from the precolonial period until present day. During the semester, students will explore various texts (written and visual) in order to examine the various manifestations of Latin American cultures.

Fulfills the following degree requirement(s): SPAN - Culture

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 342 Mexican Civilization and Culture credit(s): 3

This course provides a general introduction to Mexican culture and civilization from the pre-colonial period to the present day. Special attention will be paid to Mexico's history, art, music, social customs, and values.

Fulfills the following degree requirement(s): Core: Global Studies

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 351 Latin American Cinema credit(s): 3

This course will focus on a series of representative Latin American films in order to explore issues of national formation and cultural identity. Emphasis will be given to the social, political, and economic factors which affect the production and reception of these films.

Fulfills the following degree requirement(s): HIST - Non-History elect, SPAN - Culture

Equivalent(s): FILM 340, INST 414

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 352 Spanish Cinema credit(s): 3

This course provides an introduction to the history of Spanish cinema through the study of representative films of different historical periods (Francoist and/ or democratic period). Particular attention will be given to the historical, social, and cultural context of the production and reception of those movies, as well as to questions of authorship/genre, gender/sexuality, and national/cultural identity.

Fulfills the following degree requirement(s): SPAN - Culture

Equivalent(s): FILM 341, INST 415

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 360 Introduction to Spanish Linguistics credit(s): 3

This course provides an introduction to Spanish linguistics and establishes the basis for the application of linguistic principles. The content included is an overview of linguistic rules with a focus on Spanish. The course begins with an introduction to the description and organization of data dealing with phonology (how sound patterns form words). Building on this, the discussion continues with topics in morphology (word formation and verbal inflection) and the description and organization of data dealing with syntax (how words combine to form phrases and sentences). Finally, the course ends by analyzing the regional variations of Spanish (dialectology) where the students apply the first three concepts (phonology, morphology and

syntax) to contrast and compare the regional categories of Spanish use world-wide including the following six modalities: Peninsular (Northern/Southern Spain), Atlantic (Canary Islands/Latin America), USA, Equatorial Guinea, Judeo-Spanish and Creoles.

Fulfills the following degree requirement(s): SPAN - Culture

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 361 History of Spanish Language **credit(s): 3**

This course traces the development of the Spanish language from Latin to the present focusing upon the cultural, literary and historical factors that have contributed to its evolution from Latin to early Romance, and then to the Modern language. The course is divided into four parts: the lexical expansion Vulgar Latin to Classical Latin to modern Spanish elements; the development of the phonological system; the development of the written language from Alfonso El Sabio and Berceo to La Celestina, Valdes, Nebrija, and the language of the Golden Age; and, the overseas expansion of Spanish and Judeo-Spanish.

Fulfills the following degree requirement(s): SPAN - Culture

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 362 Spanish Phonology and Phonetics **credit(s): 3**

This course examines the relationship between orthography (the way we spell Spanish) and the way it is pronounced. It also focuses on common orthographic errors, including spelling, accentuation and syllabification. In addition, it closely examines the sounds of Spanish (the phonetics) and the rules that govern the distribution of these sounds in the language (the phonology) and examines how these sounds vary across dialects and the linguistic and extralinguistic factors that contribute to this variation.

Fulfills the following degree requirement(s): SPAN - Culture

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 380 Special Topics Advanced Level **credit(s): 0-6**

Course repeatable for 12 credit.

Topics in Spanish literature to be determined by professor.

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 385 Special Topics Abroad Advanced Level **credit(s): 0-6**

Course repeatable for 12 credit.

Topic to be determined by professor.

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 390 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be decided by professor.

Prerequisite(s): SPAN 320, minimum grade: C

SPAN 400 Spanish in the US **credit(s): 3**

This course familiarizes students with issues about language use in social contexts. Students will discuss results of research on the relationship between language and society in several Spanish-speaking communities, examine different types of linguistic and social variation, and learn methods to study such variation in monolingual and bilingual communities. Based on the

readings, discussions and practice, students will have the opportunity to explore, discover and investigate the social nature of language.

Fulfills the following degree requirement(s): SPAN - Culture

Prerequisite(s): SPAN 321-498, 1 course, minimum grade: C

SPAN 401 Second Language Acquisition

credit(s): 3

This course is an introduction to the field of second language acquisition with an emphasis on speaking. The course format will include readings, discussions, and student presentations. It will examine speaking in a second language from several perspectives: theory, evaluation/testing, pedagogy, and materials.

Prerequisite(s): SPAN 321-498, 1 course, minimum grade: C

SPAN 403 Spanish Theater

credit(s): 3

Spanish theater from its origins to the present. Emphasis on the significance of the Golden Age of theater to the evolution of this genre.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 404 Spanish - American Theater

credit(s): 3

Spanish American theatre from the pre-Hispanic period to the present. Emphasis placed on the contemporary period and the theater that evolved subsequent to the Modernist period.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 405 Narrative Fiction in Spain

credit(s): 3

Analysis of the historical evolution of the novel and short story and their literary antecedents in Spain, from origins to the present.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 406 Narrative Fiction in Span Amer

credit(s): 3

The novel and short story in Spanish America during the twentieth century.

Equivalent(s): INST 406

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 407 Peninsular Contemporary Short Story

credit(s): 3

This course focuses on Spanish short stories written in Spain or by Spaniards living in exile from the 1940s to the present. The course gives a panoramic vision of Spain's recent history through a selection of short stories and also through the history of this genre in Spain, with a strong emphasis on women writers. We will take into consideration the main authors and movements of recent decades and analyze both the mechanisms that shape the genre, and its representations, especially in terms of gender discontinuities. The students will be exposed not only to short stories, but also to articles, films, interviews, and reflections and meditations by the writers themselves.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 417 The Movies of Pedro Almodovar

credit(s): 3

In this class, the film career of Pedro Almodovar (1949-), the most important Spanish filmmaker in recent decades, will be analyzed taking into account both the recent history of Spain and the

history of the Spanish movie industry in the last 30 years. We will discuss several of his feature films and short films, as well as some of his writing. The topics of discussion will mainly focus on questions of identity in his movies, the relationship between his films and the cultural-political market of the democracy in Spain (the "Movida"), and the evolution of his movies in terms of cinematography, genre (from comedy to melodrama and lately, film noir), and gender representation. Film titles vary from semester to semester; however, could include films such as: Labyrinth of Passions (1982), Dark Habits (1983), What Have I Done to Deserve This?! (1984), Matador (1986), The Law of Desire (1987), Women on the Verge of a Nervous Breakdown (1988), High Heels (1991), All About my Mother (1999), Talk to Her (2002), Volver (2006), Broken Embraces (2009). This class will be conducted in Spanish.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 418 Spanish American Short Story credit(s): 3

This course will study the evolution of Spanish American short story from its appearance in the nineteenth century until today. Students will examine the manner in which this literary genre responded to the particular set of social, political, and economic considerations which shaped its production and reception. Students will read not only the texts themselves, but will also study critical theory surrounding the development of short story in Spanish America, and the regional responses which emerged.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 429 Latin American History credit(s): 3

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 442 Contemporary Latin American Womens Literature credit(s): 3

Studies and analyzes narrative fiction, poetry, drama, and/or essays written by or about Latin American women writers. Emphasis placed on literature from the 20th and 21st centuries.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 470 Special Topics Study Abroad credit(s): 3

Course repeatable for 12 credit.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 471 The Hispanic Community in U.S. credit(s): 3

Social outreach course: readings on and volunteer work with Hispanic community.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 480 Seminar credit(s): 3

Course repeatable for 6 credit.

Specific topics to be chosen by professor.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 481 Seminar **credit(s): 3**

Course repeatable for 12 credit.

Specific topics to be chosen by professor.

Prerequisite(s): SPAN 302, minimum grade: C or SPAN 320, minimum grade: C and SPAN 321-399, 1 course

SPAN 490 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Readings and reports on selected topics. By arrangement.

Prerequisite(s): SPAN 321-498, 1 course, minimum grade: C

SPAN 491 Directed Reading **credit(s): 1-3**

Course repeatable for 6 credit.

Readings and reports on selected topics. By arrangement.

Prerequisite(s): SPAN 321-498, 1 course, minimum grade: C

SPAN 497 Spanish Language Internship **credit(s): 0-3**

Course repeatable for 3 credit.

Professional experience in a setting related to Hispanic communities and in which Spanish is often used. SPAN 497 does not count toward upper-division major/minor requirements.

Student is responsible to find an appropriate internship and to present a plan (description, objectives, proposed assessment) to a Spanish professor for approval and supervision.

Prerequisite(s): SPAN 321-498, 1 course, minimum grade: C

SPAN 499 Senior Capstone **credit(s): 1**

In this course students will demonstrate the knowledge they have learned via a portfolio that includes a language proficiency exam, a Spanish narrative that critically reflects upon the content acquired in the courses students completed toward the major, a reflective essay in English to measure the student learning outcome of intercultural competency, and an oral presentation. The Spanish narrative is designed to integrate and synthesize students' experiences in literature, culture, film and linguistics. The final grade will be (Satisfactory/Non-Satisfactory).

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): SPAN 321-498, 15 credits

Music

Chairperson: Peter Hamlin

Professors: K. Hekmatpanah, R. Spittal, J. K. Waters, S.J. (Emeritus)

Associate Professor: P. Hamlin, M. Stohlmann

Assistant Professors: M. Kropf, J. Tarver

Senior Lecturer: D. Fague

The department offers two majors and two minors:

Bachelor of Arts, Music major

(required concentration in General Studies, Performance, Composition, Sacred Music, or Jazz)

Bachelor of Arts, Music Education major

(required concentration in Choral and General Music or Instrumental and General Music)

Minor in Conducting (for Music or Music Education majors only)

Minor in Music

The Music major requires the completion of a concentration in General Studies, Performance, Composition, Sacred Music, or Jazz. The Music Education major certifies the graduate to teach music in the elementary and secondary schools in the State of Washington and 47 reciprocating states. Students majoring in Music Education may select either the choral and general music or instrumental and general music concentration.

All music majors are required to be involved in a major ensemble (orchestra, wind ensemble, or choir) and applied lessons (MUSC 131) in their major instrument each semester after declaration as a music major. Majors in the performance concentrations are required to enroll in applied lessons for two credits every semester beginning the sophomore year. Students must audition to enter upper-division applied lessons (MUSC 331). All music majors are also required to pass a functional keyboard proficiency requirement. Those students who are awarded music scholarships are required to be involved actively in the department, maintain high academic standards, and participate in a performing ensemble and applied lessons each semester.

All instrumental and choral ensembles are open to all students regardless of major or minor through placement processes with faculty. Individual lessons are also available in voice, piano, organ, guitar, woodwinds, strings, brass, percussion, and jazz.

B.A. Major in Music: 35-55 Credits

Lower Division (30 credits)

MUSC 120 Introduction to Music Technology (not required for General Studies)	1 credit
MUSC 130 Piano Proficiency Class (not required for General Studies)	1 credit
MUSC 131 Applied Lessons	4 credits
Ensembles ⁽¹⁾	4 credits
MUSC 140 Concert Choir	
MUSC 144 Gonzaga Glee Club	
MUSC 145 Discantus Treble Chorus	
MUSC 146 Wind Ensemble	
MUSC 147 Symphony Orchestra	
MUSC 150 Guitar Ensemble	
MUSC 153 String Chamber Ensemble	
MUSC 157 Liturgical Music Ensemble	
MUSC 161 Music Theory I	3 credits
MUSC 161L Theory I Ear Training Lab	1 credit
MUSC 162 Music Theory II	3 credits
MUSC 162L Theory II Ear Training Lab	1 credit
MUSC 211 Conducting (Not required for general Studies)	3 credits
MUSC 257 ⁽²⁾ Creative Music Lab Ensemble (Not required for General Studies)	3 credits
<i>(MUSC 257 is a 1-credit course that must be repeated for a total of 3 credits)</i>	
MUSC 261 Music Theory III	3 credits
MUSC 261L Theory III Ear Training Lab	1 credit
MUSC 262 ⁽³⁾ Music Theory IV	3 credits
Upper Division (9 credits)	
MUSC 391 Music History I	3 credits
MUSC 392 Music History II	3 credits
MUSC 480 Music History Seminar	3 credits

⁽¹⁾Sacred Music concentration students must take MUSC 157 for 4 credits.

⁽²⁾Sacred Music concentration students do not take MUSC 257 as the content is covered in other required coursework.

⁽³⁾MUSC 262 is not required for Sacred Music concentration students

General Studies in Music Concentration: 6 credits

Music Electives	6 credits
MUSC 491 Thesis/Oral Comprehensive Exam	0 credit
MUSC 499 Senior Thesis	0 credit

Performance Concentration: 10 Credits

MUSC 131 Applied Lessons	2 credits
MUSC 241 Upper Division Applied Exam	0 credit
MUSC 325 Half Recital	0 credit
MUSC 331 Applied Lessons	8 credits
MUSC 425 Full Recital	0 credit

Composition Concentration: 19 Credits

MUSC 132A Applied Composition (1 credits w/ 2 semesters)	2 credits
MUSC 110 Introduction to Music Composition	3 credits
MUSC 332A Applied Composition (2 credits w/ 4 semesters)	8 credits
MUSC 210 Orchestration and Arranging	3 credits
MUSC 310 Interdisciplinary Composition	3 credits
MUSC 326 Composition Junior Portfolio	0 credit
MUSC 426 Composition Senior Portfolio	0 credit

Sacred Music Concentration: 21 Credits

MUSC 131 Applied Lessons (Piano or Organ)	1 credit
MUSC 131C Applied Lessons (voice)	1 credit
Additional Ensembles:	2 credits
Chosen from: MUSC 140, 144, 145, 146, 147, 149, 150, 153	
MUSC 241 Upper Division Applied Exam	0 credit
MUSC 320 Vocal Pedagogy	2 credits
MUSC 325 Half Recital	0 credit
MUSC 331 Applied Lessons	4 credits
MUSC 364 Composition	2 credits
MUSC 497 Internship	3 credits
RELI 326 Liturgy	3 credits
One additional Religious Studies course selected from the following:	3 credits
RELI 233 Christian Spirituality	
RELI 327 Christian Leadership	
RELI 229 Christian Diversity	

Jazz Concentration: 14 credits

MUSC 131 Applied Jazz Lessons	2 credits
MUSC 149 Jazz Workshop Combo	4 credits
MUSC 175 Jazz History	3 credits
MUSC 241 Upper Division Applied Exam	0 credits
MUSC 331 Applied Jazz Lessons	4 credits
MUSC 340 Jazz Piano Proficiency Exam	0 credits
MUSC 450 Jazz Theory & Analysis	1 credit
MUSC 425 Full Recital	0 credits

B.A. Major in Music Education: 65-66 Credits

(with required Music Education Concentration)

Lower Division: 31 credits

MUSC 120 Introduction to Music Technology	1 credit
MUSC 130 Piano Proficiency Class	1 credit
MUSC 131 Applied Lessons	4 credits
MUSC 131T Applied Conducting	1 credit
Ensembles	4 credits
MUSC 140 Concert Choir	
MUSC 144 Gonzaga Glee Club	
MUSC 145 Discantus Treble Chorus	
MUSC 146 Wind Ensemble	
MUSC 147 Symphony Orchestra	
MUSC 150 Guitar Ensemble	
MUSC 153 String Chamber Ensemble	
MUSC 157 Liturgical Music Ensemble	
MUSC 161 Music Theory I	3 credits
MUSC 161L Theory I Ear Training Lab	1 credit
MUSC 162 Music Theory II	3 credits
MUSC 162L Theory II Ear Training Lab	1 credit
MUSC 211 Conducting	3 credits
MUSC 241 Upper Division Applied Exam	0 credit
MUSC 257 Creative Music Lab Ensemble	3 credits
<i>(MUSC 257 is a 1 credit course that must be repeated for a total of 3 credits)</i>	
MUSC 261 Music Theory III	3 credits
MUSC 261L Theory III Ear Training Lab	1 credit
MUSC 262 Music Theory IV	3 credits

Upper Division: 9 credits

MUSC 311 Conducting II	3 credits
MUSC 325 Half Recital	0 credits
MUSC 391 Music History I	3 credits
MUSC 392 Music History II	3 credits

Select one of two required Music Education Concentrations

**Choral and General Music Concentration *or*
Instrumental and General Music Concentration**

Required Education Courses: 36 credits (Both Concentrations)

EDPE 417 Abuse Prevention	1 credit
EDSE 150 Psychology of the Exceptional Child	3 credits
EDTE 101 Foundations of American Education	3 credits
EDTE 213 NW History for Teachers	1 credit
MUSC 454L Field Experience III	1 credit
MUSC 495 Student Teaching Professional Seminar	2 credits

MUSC 496S Student Teaching	12 credits
MUSC 139 World Music Methods	1 credit
MUSC 452 Classroom Management & Assessment	3 credits
MUSC 452L Field Experience I	1 credit
MUSC 453 General Music Education Methods	3 credits
MUSC 453L Field Experience II	1 credit
MUSC 454 Music Education Methods	3 credits

Choral and General Concentration: 13 credits

Choose 2 of the following 4 courses: 2 credits

- MUSC 133 Brass Techniques
- MUSC 134 Woodwind Techniques
- MUSC 135 String Techniques
- MUSC 136 Percussion Techniques

Choose 1 of the following 2 courses: 2 credits

- MUSC 231 Vocal Diction I
- MUSC 232 Vocal Diction II

Additional Required courses:

MUSC 320 Vocal Pedagogy	2 credits
MUSC 325 Half Recital	0 credit
MUSC 331C Applied Lessons (Voice)	4 credits

Instrumental and General Music Concentration: 12 Credits

MUSC 133 Brass Techniques	1 credit
MUSC 134 Woodwind Techniques	1 credit
MUSC 135 String Techniques	1 credit
MUSC 136 Percussion Techniques	1 credit
MUSC 137 Vocal Techniques	1 credit
<i>3 credits from the following 2 courses:</i>	3 credits
MUSC 146 Wind Ensemble	
MUSC 147 Symphony Orchestra	
MUSC 331 Applied Lessons (Instrument)	4 credits

Minor in Conducting: 20 credits

(For Music Majors or Music Education Majors only)

MUSC 211 Conducting	3 credits
MUSC 131T Applied Conducting	4 credits
MUSC 332 Choral Conducting Lab	0 credit
MUSC 333 Instrumental Conducting Lab	0 credit
MUSC 325 Half Recital (major instrument or voice)	0 credit
Ensembles:	8 credits
MUSC 140 Concert Choir	
MUSC 143 Chamber Singers	

MUSC 146 Wind Ensemble	
MUSC 147 Symphony Orchestra	
Electives:	5 credits
MUSC 131 Private Lessons (in primary instrument)	
MUSC 133 Brass Techniques	
MUSC 134 Woodwind Techniques	
MUSC 135 Strings Techniques	
MUSC 136 Percussion Techniques	
MUSC 137 Vocal Techniques	
MUSC 140 Concert Choir	
MUSC 143 Chamber Singers	
MUSC 146 Wind Ensemble	
MUSC 147 Symphony Orchestra	

Minor in Music: 20 credits

Knowing:	11 credits
MUSC 161 Music Theory I	3 credits
MUSC 161L Theory I Ear Training Lab	1 credit
MUSC 162 Music Theory II	3 credits
MUSC 162L Theory II Ear Training Lab	1 credit

Choose one of the following:

MUSC 171 Music in the Humanities	3 credits
MUSC 175 Jazz History	3 credits
MUSC 249 World Music	3 credits
MUSC 250 American Music	3 credits
MUSC 261 Music Theory III	3 credits*

**requires co-requisite MUSC 261L Theory III Ear Training Lab for 1 credit*

Creating:	4 credits
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Choose from the following:

MUSC 131 Applied Lessons (<i>can take up to 4 credits</i>)	1 credit
MUSC 120 Intro to Music Tech	1 credit
MUSC 121 Piano Class I	1 credit
MUSC 221 Piano Class II	1 credit
MUSC 123 Guitar Class I	1 credit
MUSC 223 Guitar Class II	1 credit
MUSC 125 Group Voice Class	1 credit
MUSC 257 Creative Music Lab	1 credit
MUSC 231 Vocal Diction I	2 credits
MUSC 232 Vocal Diction II	2 credits
MUSC 320 Vocal Pedagogy	2 credits

Performing: **5 credits**

*Choose from the following**

MUSC 140 Concert Choir	1 credit
MUSC 144 Gonzaga Glee Club	1 credit
MUSC 143 Chamber Singers	1 credit
MUSC 145 Discantus Treble Chorus	1 credit
MUSC 146 Wind Ensemble	1 credit
MUSC 147 Symphony Orchestra	1 credit
MUSC 149 Jazz Workshop Combo	1 credit
MUSC 150 Guitar Ensemble	1 credit
MUSC 152 Gonzaga Jazz Ensemble	1 credit
MUSC 153 String Chamber Ensemble	1 credit

**One ensemble can be taken up to 8 times total for credit, but a maximum of 5 of those credits will apply to the minor*

Courses:

MUSC 110 Introduction to Composition **credit(s): 3**

Students compose vocal and instrumental music to gain an understanding of the creative process and contemporary music. Topics include notation, the elements of music, instrumentation, vocal techniques, and aesthetics.

MUSC 120 Introduction to Music Technology **credit(s): 1**

Students will acquire skills and proficiency in applications and technology that will allow them to create music, including but not limited to digital recording and editing, publishing scores, and electronically generating music. Music majors must take this course concurrently with MUSC 162 and MUSC 162L.

MUSC 121 Piano Class I **credit(s): 1**

Designed for the pianist with no previous keyboard skills or note reading ability. Emphasis is on basic terminology, technique, and musical concepts. Literature includes classical to contemporary.

MUSC 122 Piano Class II **credit(s): 1**

Designed for beginner to intermediate pianists who have completed MUSC 121 or who have some past keyboard experience. Includes review of basics, plus technique, sight-reading, harmonizing, transposition, improvisation, and literature.

Prerequisite(s): MUSC 121

MUSC 123 Guitar Class I **credit(s): 1**

Designed for the beginning guitarist. Emphasis on tuning, position, chords, and basic reading skills.

MUSC 124 Guitar Class II **credit(s): 1**

A continuation of Guitar Class I.

Prerequisite(s): MUSC 123

MUSC 125 Group Voice Class **credit(s): 1**

Designed for the beginning vocalist. Emphasizes the development of basic techniques of breath management, posture, tone quality, and diction. Includes study of vocal theory, exercise materials, and an introduction to standard vocal literature.

MUSC 130 Piano Proficiency Class **credit(s): 1**

Course repeatable for 4 credit.

Required of all music majors. Students learn basic piano techniques (scales, arpeggios, hand positions), and they play a melody with accompaniment, clef reading, sight-reading, and basic repertoire.

Restriction(s):

Must be in the following Major(s): Music, Music Education

MUSC 131A Applied Piano **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied piano, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131B Applied Organ/Harpsichord **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied organ/harpsichord, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131C Applied Voice **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied voice, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Students also meet for a weekly 60-minute studio class.

MUSC 131D Applied Violin **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied violin, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131E Applied Cello **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied cello, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131F Applied Oboe **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied oboe, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131G Applied Guitar **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied guitar, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131H Applied String Bass **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied string bass, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131I Applied Clarinet **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied clarinet, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131J Applied Saxophone **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied saxophone, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131K Applied Flute **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied flute, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131L Applied Trumpet **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied trumpet, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131M Applied Low Brass **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied low brass, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131N Applied Percussion **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied percussion, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131O Applied Jazz Piano **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied jazz piano, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131P Applied Bassoon **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied bassoon, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131Q Applied French Horn **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied french horn, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131R Applied Jazz Improvisation **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied jazz improvisation, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131S Applied Electric Bass **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied electric bass, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131T Applied Conducting **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied conducting, open to music majors and conducting minors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 211

MUSC 131U Applied Jazz Bass **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied jazz bass, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131V Applied Harp **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied harp, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131W Applied Viola **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied viola, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131X Applied Jazz Guitar **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied jazz guitar, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131Y Applied Jazz Voice **credit(s): 1-2**

Course repeatable for 20 credit.

Individual lessons in applied jazz voice, open to music majors, minors, and non-music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 131Z Applied Jazz Drum Set **credit(s): 1-2**

Course repeatable for 16 credit.

Individual lessons in applied jazz drum set. Designed to teach the basics of jazz drumming. Students will learn how to play within a wide variety of jazz styles including straight ahead swing, bossa nova, 12/8, ballad style, etc. Students will learn proper techniques including use of hi-hat, feathering on the bass drum, comping on all drums/cymbals, marking form and use of the proper equipment including brushes, sticks and mallets.

MUSC 132A Applied Composition**credit(s): 1-2**

Course repeatable for 8 credit.

Individual lessons in applied composition, open to music majors, minors, and non- music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

MUSC 133 Brass Techniques**credit(s): 1**

Designed to formulate principles for teaching the brass instruments. Discussion, demonstration, and performance on the brass instruments. Includes development of proper embouchure, tone production, intonation, range and tone quality. Representative repertoire and teaching materials studied.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

MUSC 134 Woodwind Techniques**credit(s): 1**

Designed to formulate principles for teaching the woodwind instruments. Discussion, demonstration, and performance on the woodwind instruments. Includes development of proper embouchure, tone production, intonation, range and tone quality. Representative repertoire and teaching materials studied.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

MUSC 135 Strings Techniques**credit(s): 1**

Designed to formulate principles for teaching the string instruments. Discussion, demonstration, and performance on the string instruments. Includes development of proper bowing, tone production, intonation, range and tone quality. Representative repertoire and teaching materials studied.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

MUSC 136 Percussion Techniques**credit(s): 1**

Designed to formulate principles for teaching the percussion instruments. Discussion, demonstration, and performance on the percussion instruments. Includes development of snare drum technique, proper grip, striking action, and tone quality. Representative repertoire and teaching materials studied.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

MUSC 137 Vocal Techniques**credit(s): 1**

Topic to be determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

MUSC 139 World Music Methods**credit(s): 1**

This course is designed specifically for students in the B.A. in Music Education program. The course explores musical cultures throughout the world at the present time, including but not limited; Africa, the Americas, Asia, Near East, Europe, and the South Pacific. The course is designed to supplement the Music History sequence (MUSC 391,392,393) by encouraging appreciation for non-Western music and musical cultures that lie outside the Western canon,

and will lead them to formulate principles and methodologies for applying their knowledge of world music to their teaching in the elementary and secondary schools.

MUSC 140 Concert Choir **credit(s): 1**

Course repeatable for 10 credit.

Mixed, SATB chorus open to students of all majors by placement with choral faculty.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

MUSC 141 Big Bing Theory a cappella **credit(s): 1**

Course repeatable for 8 credit.8 time.

The Gonzaga University Big Bing Theory a cappella vocal ensemble rehearses, reflects upon and performs standard repertoire from the pop a cappella choral music canon. The ensemble is open to students of all areas of study through the choral placement process.

MUSC 142 Gonzaga Vocal Jazz Choir **credit(s): 1**

Course repeatable for 8 credit.8 time.

The Gonzaga Vocal Jazz Choir rehearses, reflects upon, and performs standard vocal jazz choir repertoire from a variety of jazz sub-genres and vocal jazz composers spanning several decades. The ensemble is open to student musicians of all areas of study.

MUSC 143 Chamber Singers **credit(s): 1**

Course repeatable for 10 credit.

Mixed, SATB chorus open to students of all majors by audition with choral faculty. Focuses on staged productions, outreach performances, and international intercultural exchange tours.

MUSC 144 Gonzaga Glee Club **credit(s): 1**

Course repeatable for 20 credit.

Chorus of tenors & basses open to students of all majors by placement or meeting with choral faculty.

The Glee Club sings TTBB literature. May be repeated for credit.

MUSC 145 Discantus Treble Chorus **credit(s): 1**

Course repeatable for 20 credit.

Chorus of sopranos and altos open to students of all majors by placement or meeting with choral faculty. The Discantus Treble Chorus sings SSAA literature.

MUSC 146 Wind Ensemble **credit(s): 1**

Course repeatable for 10 credit.

The Wind Ensemble performs new and standard literature for concert band and wind ensemble. Audition required.

MUSC 147 Symphony Orchestra **credit(s): 1**

Course repeatable for 20 credit.

The Symphony Orchestra is open to all members of the University and Spokane community. Registration required for all orchestra players from the University and community. Audition or permission from instructor required.

MUSC 148 Chamber Ensemble **credit(s): 1**

Course repeatable for 10 credit.

Audition required.

Prerequisite(s): MUSC 140 or MUSC 146 or MUSC 147

- MUSC 149 Jazz Workshop Combo** **credit(s): 1**
 Course repeatable for 10 credit.
 Audition required.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- MUSC 150 Guitar Ensemble** **credit(s): 1**
 Course repeatable for 10 credit.
 Audition required.
Corequisite(s): MUSC 131G
- MUSC 151 Wind Symphony** **credit(s): 1**
 Course repeatable for 10 credit.
 An instrumental class that focuses on tone production, blend, balance, intonation, breath support, and other necessary skills as it relates to the performance of established and contemporary works in the wind band medium.
- MUSC 152 Gonzaga Jazz Ensemble** **credit(s): 1**
 Course repeatable for 20 credit.
 The Jazz Ensemble performs new and standard literature for big band/jazz orchestra. Membership in the Jazz Ensemble is limited to saxophones, trumpets, trombones, and rhythm section players. An entrance audition at the beginning of the Fall semester is required.
Fulfills the following degree requirement(s): Core: Fine Arts and Design
- MUSC 153 String Chamber Ensemble** **credit(s): 1**
 Course repeatable for 8 credit.
 A chamber ensemble for string students. Students must be proficient on their instrument.
 Audition required.
- MUSC 154 Percussion Ensemble** **credit(s): 1**
 Course repeatable for 8 credit.
 The Percussion Ensemble performs a wide variety of literature from standard to non-traditional and ethnic music. Instructor permission required.
- MUSC 155 Gonzaga Band** **credit(s): 1**
 Course repeatable for 20 credit.
 Gonzaga Band is a non-performing beginning/skills band that will serve as a feeder to the instrumental ensembles in the music department. The class will focus on tone production, blend, balance, intonation, breath support, and other necessary skills for any student musician seeking to audition into music department instrumental ensembles.
- MUSC 156 Gonzaga Drum Line** **credit(s): 1**
 Course repeatable for 8 credit.
 GU Drum Line will consist of learning music and other protocol associated with the Gonzaga Bulldog Band. Students will concentrate on leaning proper technique on marching snare, bass drum, cymbals, and quads. They will focus on learning the Bulldog Band repertoire as well as several drum cadences and features that will be showcased at Men's/Women's/home games.
- MUSC 157 Liturgical Music Ensemble** **credit(s): 1**
 Course repeatable for 8 credit.
 The Liturgical Music Ensemble consists of singers and instrumentalists who lead music at the university's festive liturgies, student Masses, ecumenical liturgies, and interfaith services. The course utilizes a diverse repertoire of sacred music, including new compositions, contemporary

arrangements, repertoire from the Catholic tradition, hymns, anthems, Mass settings, gospel music, and repertoire from global cultures.

MUSC 161 Music Theory I **credit(s): 3**

Review of music fundamentals, basic analysis, and the study of harmony through secondary dominants. Introduction to musical forms.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Corequisite(s): MUSC 161L

MUSC 161L Theory I Ear Training Lab **credit(s): 1**

Course includes ear training, sight-signing, melodic, rhythmic and harmonic dictation.

Corequisite(s): MUSC 161

MUSC 162 Music Theory II **credit(s): 3**

A continuation of MUSC 161.

Corequisite(s): MUSC 162L

Prerequisite(s): MUSC 161 and MUSC 161L

MUSC 162L Theory II Ear Training Lab **credit(s): 1**

Course includes ear training, sight-singing, melodic, rhythmic and harmonic dictation.

Corequisite(s): MUSC 162

Prerequisite(s): MUSC 161 and MUSC 161L

MUSC 171 Music in the Humanities **credit(s): 3**

Historical survey of the development of music from antiquity to the present. Relationships between the other arts, philosophies, and social structures presented in context with the evolution of music. Emphasizes the understanding of music history through lecture, performance, and recordings.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Fine Arts and Design, Core: Global Studies

MUSC 175 Jazz History **credit(s): 3**

A survey of jazz history including important musicians and recordings with the highest emphasis on aural discernment and critical listening skills. The lives, historical/social significance, and music of key jazz musicians of each style period will be studied through demonstrative lectures and audio/visual examples.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

MUSC 185 Special Topics: **credit(s): 1-3**

Course repeatable for 3 credit.

Course topic to be determined by Music faculty.

MUSC 190 Directed Study **credit(s): 1-3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

MUSC 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course

highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

MUSC 210 Orchestration and Arranging **credit(s): 3**

Students develop knowledge of instrumentation, orchestration, and arranging techniques. They apply these concepts to compose and arrange music for instrumentalists and vocalists.

Prerequisite(s): MUSC 162 and MUSC 110

MUSC 211 Conducting **credit(s): 3**

Fundamental study of conducting and score reading, and analysis skill applicable to instrumental and choral ensembles.

Prerequisite(s): MUSC 162

MUSC 221 Piano Class III **credit(s): 1**

A continuation of MUSC 122, designed for both the student with some past keyboard experience and music majors preparing for the keyboard skills competency exam. Includes review of fundamentals, technical sight-reading, harmonizing transposition, improvisation, and literature.

Prerequisite(s): MUSC 122

MUSC 222 Piano Class IV **credit(s): 1**

Course repeatable for 8 credit.

A continuation of MUSC 221, designed for both the student with some past experience and music majors preparing for the keyboard competency exam. Includes review of fundamentals, plus technique, sight-reading, harmonization, transposition, improvisation, and literature.

Prerequisite(s): MUSC 221

MUSC 223 Guitar Class III **credit(s): 1**

Course repeatable for 8 credit.

A continuation of Guitar Class II, this course provides a survey of guitars styles from classical to contemporary.

Prerequisite(s): MUSC 124

MUSC 224 Guitar Class IV **credit(s): 1**

A continuation of guitar Class III, this course provides an advanced survey of guitar styles and techniques from classical to contemporary. Emphasis on application in performance.

Prerequisite(s): MUSC 223

MUSC 231 Vocal Diction I **credit(s): 2**

Course repeatable for 16 credit.

Part of a four-semester sequence of courses that explore subjects significant to singers. An introduction to the International Phonetic Alphabet (IPA) and English, Italian, and Latin lyric diction, using IPA as it applies to vocal literature. Explores rules of pronunciation rules and practical application for singers as it relates to foreign language diction.

Prerequisite(s): MUSC 131C (or concurrent) or MUSC 331C (or concurrent)

MUSC 232 Vocal Diction II **credit(s): 2**

Part of a four-semester sequence of courses that explore subjects significant to singers. Applies the International Phonetic Alphabet (IPA) to German and French vocal literature. Explores rules

of pronunciation rules and practical application for singers as it relates to foreign language diction.

Prerequisite(s): MUSC 131C (or concurrent) or MUSC 331C (or concurrent)

MUSC 241 Upper Division Applied Exam

credit(s): 0

Course repeatable 2 time.

This course is required for students prior to enrolling in upper division applied lessons, normally taken during the fourth semester of MUSC 131 Applied Lessons.

MUSC 249 World Music

credit(s): 3

This course explores several musical cultures throughout the world, including but not limited to; Africa, the Americas, Asia, Near East, Europe and the South Pacific. The course is designed to enhance each student's appreciation of the diversity of music throughout the world, as well as the people that perform it.

Fulfills the following degree requirement(s): MUSC - Knowing, Core: Fine Arts and Design

MUSC 250 Popular Music in the US

credit(s): 3

This course introduces various musical styles, influences, and composers of the United States from pre-Colonial times to the present. Emphasis is placed on the broad variety of music particular to American culture, and on music's importance in the cultural history of the nation. Students will demonstrate their understanding of American music history and its cultural relevance through writing, discussion, and aural examination.

Fulfills the following degree requirement(s): MUSC - Knowing, Core: Fine Arts and Design

MUSC 257 Creative Music Lab Ensemble

credit(s): 1

Course repeatable for 8 credit.

The Creative Music Lab Ensemble (CMLE) is a contemporary chamber ensemble of varying instrumentation that explores traditional and non-traditional ways of thinking about and making music. Students will study, rehearse and perform a work by a groundbreaking 20th/21st Century composer, as well as student-created arrangements and compositions representing a wide variety of styles. CMLE allows students to actively learn about the creative musical process from ideation-to-performance through direct experience at all stages. It fosters creativity and allows students to integrate their understanding of music theory, ear training and history in a way that permits them to more fully see their relevance and importance. Students develop themselves as well-rounded musicians and gain a deeper knowledge of music. It also gives future music educators the skills to compose, improvise, arrange, and model effective methods for teaching. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Music, Music Education

MUSC 261 Music Theory III

credit(s): 3

Continuation of Music Theory II. Advanced ear-training skills, analysis, stylistic writing, and introduction to complex musical forms.

Corequisite(s): MUSC 261L

Prerequisite(s): MUSC 162 and MUSC 162L

MUSC 261L Theory III Ear Training Lab

credit(s): 1

Course includes ear training, sight-singing, melodic, rhythmic and harmonic dictation.

Corequisite(s): MUSC 261

Prerequisite(s): MUSC 162 and MUSC 162L

- MUSC 262 Music Theory IV** **credit(s): 3**
 Continuation of Music Theory III. Twentieth-century and contemporary harmony and composition.
Prerequisite(s): MUSC 261 and MUSC 261L
- MUSC 290 Directed Study** **credit(s): 1-3**
 Course repeatable for 9 credit.
 Topic to be determined by faculty.
- MUSC 310 Interdisciplinary Composition** **credit(s): 3**
 Students develop advanced composition and collaboration skills in unique cross-sections with dance, theater, songwriting, and commercial music.
Prerequisite(s): MUSC 132A, minimum grade: A
- MUSC 311 Conducting II** **credit(s): 3**
 To prepare all students to conduct a mixed-voice ensemble and be knowledgeable in score study and preparation, including instrument transposition, baton technique, score analysis, interpretation, rehearsal planning and implementation of rehearsal techniques. Students must be prepared to conduct a live ensemble of peers during each class meeting. Conducting times will be assigned for other ensembles outside of class.
Restriction(s):
 Must be the following Class(es): Junior, Senior
Prerequisite(s): MUSC 211, minimum grade: C (or concurrent)
- MUSC 320 Vocal Pedagogy** **credit(s): 2**
 Part of a four-semester sequence of courses that explore subjects significant to singers. Surveys voice science, which includes the anatomy and mechanics of vocalization, breath, and hearing; the acoustics of singing; vocal health and maintenance; classification of voice type; and an introduction to voice analysis and teaching methods.
Prerequisite(s): MUSC 131C (or concurrent) or MUSC 331C (or concurrent)
- MUSC 321 Song Literature** **credit(s): 2**
 Part of a four-semester sequence of courses that explore subjects of significant importance to singers. Surveys art song literature, history, and style, exploring major and minor composers of the German, French, Italian, British, and American repertoire.
Prerequisite(s): MUSC 131C (or concurrent) or MUSC 331C (or concurrent)
- MUSC 325 Half Recital** **credit(s): 0**
 Public performance and recording of two or more compositions written for MUSC 364.
 Required of Music majors-Composition Concentration.
Prerequisite(s): MUSC 130 and MUSC 241
- MUSC 326 Composition Junior Portfolio** **credit(s): 0**
 Course repeatable 3 time.
 Public performance and recording of two or more compositions written for MUSC 364.
 Required of composition emphasis Music majors.
Corequisite(s): MUSC 364
- MUSC 331A Applied Piano** **credit(s): 2**
 Course repeatable for 16 credit.
 Training in applied piano.
Prerequisite(s): MUSC 131A and MUSC 241 and MUSC 130

MUSC 331B Applied Organ/Harpsichord **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied organ/harpsichord, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131B and MUSC 241 and MUSC 130

MUSC 331C Applied Voice **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied voice, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson. Students also meet for a weekly 60-minute studio class.

Prerequisite(s): MUSC 131C and MUSC 241 and MUSC 130

MUSC 331D Applied Violin **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied violin, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131D and MUSC 130

MUSC 331E Applied Cello **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied cello, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131E and MUSC 241 and MUSC 130

MUSC 331F Applied Oboe **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied oboe, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131F and MUSC 241 and MUSC 130

MUSC 331G Applied Guitar **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied guitar, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131G and MUSC 241 and MUSC 130

MUSC 331H Applied String Bass **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied string bass, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131H and MUSC 241 and MUSC 130

MUSC 331I Applied Clarinet **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied clarinet, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131I and MUSC 241 and MUSC 130

MUSC 331J Applied Saxophone **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied saxophone, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131J and MUSC 241 and MUSC 130

MUSC 331K Applied Flute **credit(s): 2**

Course repeatable for 10 credit.

Individual lessons in applied flute, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131K and MUSC 241 and MUSC 130

MUSC 331L Applied Trumpet **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied trumpet, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131L and MUSC 241 and MUSC 130

MUSC 331M Applied Low Brass **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied low brass, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131M and MUSC 241 and MUSC 130

MUSC 331N Applied Percussion **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied percussion, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131N and MUSC 241 and MUSC 130

MUSC 331O Applied Jazz Piano **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied jazz piano, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131O and MUSC 241

MUSC 331P Applied Bassoon **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied bassoon, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131P and MUSC 241 and MUSC 130

MUSC 331Q Applied French Horn **credit(s): 2**

Course repeatable for 16 credit.

Individual lessons in applied french horn, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 131Q and MUSC 241 and MUSC 130

- MUSC 331R Applied Jazz Improvisation** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied jazz improvisation, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131R
- MUSC 331S Applied Electric Bass** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied electric bass, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131S and MUSC 241
- MUSC 331U Applied Jazz Bass** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied jazz bass, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131U and MUSC 241
- MUSC 331V Applied Harp** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied harp, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131V and MUSC 241 and MUSC 130
- MUSC 331W Applied Viola** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied viola, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131W and MUSC 241
- MUSC 331X Applied Jazz Guitar** **credit(s): 2**
 Course repeatable for 16 credit.
 Individual lessons in applied jazz guitar, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.
Prerequisite(s): MUSC 131X and MUSC 241
- MUSC 331Z Applied Jazz Drum Set** **credit(s): 1-2**
 Course repeatable for 16 credit.
 Individual lessons in applied jazz drum set, open to music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson. Designed to continue in the development and refinement of jazz drumming.
Prerequisite(s): MUSC 241
- MUSC 332 Choral Conducting Lab** **credit(s): 0**
 Choral Conducting lab to accompany Applied Conducting (MUSC 131T).
Corequisite(s): MUSC 131T

MUSC 332A Applied Composition **credit(s): 1-2**

Course repeatable for 8 credit.

Individual lessons in applied composition, open to music majors, minors, and non- music majors. 1 credit meets weekly for a 30-minute lesson; 2 credits meet weekly for a 60-minute lesson.

Prerequisite(s): MUSC 132A and MUSC 241

MUSC 333 Instrumental Conducting Lab **credit(s): 0**

Instrumental Conducting Lab to accompany Applied Conducting (MUSC 131T).

Corequisite(s): MUSC 131T

MUSC 340 Jazz Piano Proficiency Exam **credit(s): 0**

Course repeatable 2 time.

All students pursuing a Major in Music with a Jazz Performance Concentration must pass the Jazz Piano Proficiency Exam. Major and Minor ii-V-I progressions using rootless voicings in all keys, 2-hand accompaniment of 12-bar Blues, and chord progression sight-reading will be evaluated in the exam.

Prerequisite(s): MUSC 130

MUSC 358 Keyboard Accompanying **credit(s): 1**

Course repeatable for 8 credit.

Keyboard students are assigned to student vocalists and instrumentalists by the instructor. Students attend weekly rehearsals, receive coaching and are required to perform at least once per semester.

Prerequisite(s): MUSC 331A

MUSC 385 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Topic determined by Music faculty.

MUSC 391 Music History I **credit(s): 3**

Survey of the history and literature of music from Antiquity through the Medieval, Renaissance, Baroque, and Classical Periods.

Equivalent(s): MUSC 291

Prerequisite(s): MUSC 261, minimum grade: C and MUSC 130

MUSC 392 Music History II **credit(s): 3**

Survey of the history and literature of music in the Romantic Period, 20th Century, and New Millennium. Includes music of the Western classical and jazz traditions and global intersections.

Prerequisite(s): MUSC 391, minimum grade: C

MUSC 425 Full Recital **credit(s): 0**

Course repeatable 5 time.

Sixty minute degree recital required for those students majoring in Music Performance.

Presentation of recital requires successful audition one month prior to recital date.

Prerequisite(s): MUSC 331A-331Z, 1 course and MUSC 325

MUSC 426 Composition Senior Portfolio **credit(s): 0**

Public performance and recording of one or more compositions written for MUSC 364 or MUSC 464. Works performed for MUSC 326 are ineligible to meet this requirement. Required for Music Majors, Composition Concentration.

Corequisite(s): MUSC 464

Prerequisite(s): MUSC 326

MUSC 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

MUSC 450 Jazz Theory and Analysis **credit(s): 1**

Designed to teach students chord/scale theory, application, and analysis. The course will cover harmonic major, ascending melodic minor, diminished, augmented, pentatonic, and synthetic scales as well as triad pairs and how they relate to the harmony over which jazz improvisers apply them. Further, students will transcribe and analyze instrumental jazz from three developmental eras of jazz: Bebop (1940-1950), Classic (1950-1960), and Modern (1960-present).

Prerequisite(s): MUSC 340 and MUSC 262, minimum grade: C

MUSC 452 Classroom Management and Assessment **credit(s): 3**

Future music teachers develop strategies and techniques for effective and creative classroom management, motivation, assessment, and evaluation with applications to K-12 school music programs.

Corequisite(s): MUSC 452L

Prerequisite(s): MUSC 211, minimum grade: C

MUSC 452L Field Experience I **credit(s): 1**

"Teacher candidates will have the opportunity to explore the instruction, assessment, and technology practices that are at work in schools. Teacher candidates are required to submit a Field Experience Request form to the Field Experience office a minimum of a month prior to the semester they are taking the course. This form can be found on Blackboard under Teacher Certification and Field Experience Materials Course.

The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is to be on file. Field experiences at Gonzaga University provide opportunities for teacher candidates to observe experienced teachers, practice newly emerging teaching skills, and apply theory gained from university coursework to the "real

world' of elementary, middle, and secondary schools. It is also a time of feedback and reflection on the social, psychological, and pedagogical aspects of classroom and school life."

Corequisite(s): MUSC 452

Prerequisite(s): MUSC 211, minimum grade: C

MUSC 453 General Music Education Methods credit(s): 3

General Music Education Methods is designed to prepare students for teaching general music to children in grades K-12. Emphasis is placed on developing a philosophy of music education that considers the developmental needs of children as foundational in the process of teaching music concepts. The course consists of lectures, teaching demonstrations, peer teaching, music classroom observations, a review of music education literature, and the development of a teaching portfolio. Students will develop skills in teaching music that incorporates singing, movement, playing instruments, listening, creating, and writing.

Equivalent(s): EDTE 400, EDTE 454N

Corequisite(s): MUSC 453L

MUSC 453L General Music Education Methods Lab credit(s): 1

Field experiences at Gonzaga University provide opportunities for teacher candidates to observe experienced teachers, practice newly emerging teaching skills, and apply theory gained from university coursework to the "real world" of elementary, middle, and secondary schools. It is also a time of feedback and reflection on the social, psychological, and pedagogical aspects of classroom and school life.

Corequisite(s): MUSC 454

MUSC 454 Music Education Methods credit(s): 3

A study of elementary and secondary choral and instrumental instruction including program organization, teaching techniques, materials, and field experiences.

MUSC 480 Music History Seminar credit(s): 3

An in-depth investigation of one particular topic of music. Students engage in analysis, research and practical application of a topic relevant to the discipline of music. Examples include a given composer, genre, and music performance issue. Spring.

Prerequisite(s): MUSC 392, minimum grade: C and MUSC 391, minimum grade: C

MUSC 490 Directed Study/Readings credit(s): 1-3

Course repeatable for 9 credit.

Directed Study/Readings requires completion of a form, and Department Chair permission and cannot be registered for via Zagweb.

MUSC 491 Thesis/Oral Comprehensive Exam credit(s): 0

This course is designed to test students' knowledge and retention of the information covered in their course of study. Required for Music Majors, General Studies Concentration.

Prerequisite(s): (MUSC 291 or MUSC 391)(and MUSC 311 or MUSC 211)(and MUSC 390 or MUSC 391)(and MUSC 391 or MUSC 392) and MUSC 462 and MUSC 499

MUSC 495 Student Teaching Seminar credit(s): 2

The Seminar complements the semester of student teaching. It is an integral facet of the student teaching experience and will serve both as a forum for sharing ideas, concerns, problems and solutions as well as a means of preparation for effective teaching. Current issues in music education will be discussed.

Corequisite(s): MUSC 496

MUSC 496 Student Teaching**credit(s): 12**

This is a culminating 16 week capstone experience in which the teacher candidate assumes the full responsibility of a teacher under the direction of a University Supervisor and a Mentor Teacher. Seminars are provided for student interaction, problem solving, certification requirements, and informational support. Current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): MUSC 495**MUSC 497 Internship****credit(s): 0-6**

Course repeatable for 6 credit.

An Internship in Music is designed to give music majors an experience working within a professional organization and to develop hands-on career experiences. It is intended to prepare music majors for a career in the music and/or teaching profession. The student is responsible for securing the internship.

Restriction(s):

Must be in the following Major(s): Music, Music Education

Must be the following Class(es): Junior, Senior

MUSC 499 Senior Thesis**credit(s): 0**

Required for those students seeking the Bachelor of Arts in Music, General Studies Concentration. A major research paper on a selected topic. The Senior Thesis will serve as a major component in the Oral Comprehensive Exam.

Prerequisite(s): MUSC 399, minimum grade: D

Native American Studies

Director: Laurie Arnold

The program offers one minor:

Minor in Native American Studies

Understanding that there is no single “Native American” perspective, this program will explore Native American histories and cultures through varied Native community experiences and points-of-view. The multi-disciplinary curriculum will create:

- Informed comprehension of Native American histories and distinct Native American colonial experiences;
- Insightful consideration of varied Native American social, cultural, and political perspectives, including contemporary community priorities;
- Scholarly appreciation for Native American arts and literature as tools for cultural interpretation; and
- A deeper understanding of ancestral and contemporary Native American communities on the Columbia Plateau and Gonzaga’s intellectual and spiritual connection to this homeland.

The minor is open to all Gonzaga undergraduate students, and students considering a minor in Native American Studies are encouraged to enroll in the required introductory course, NTAS 101, which will be offered annually.

Minor in Native American Studies: 21 credits

Lower Division

NTAS 101 Intro to Native American Studies

3 credits

NTAS electives

0-6 credits

Upper Division

One of the following two courses:

3 credits

NTAS 497 Experiential Learning: Internship

NTAS 498 Experiential Learning: Research

NTAS electives

9-15 credits

Courses:

NTAS 101 Introduction Native American Studies credit(s): 3

This course will explore the histories and cultures of Indigenous groups in North America. While the course will primarily focus on the 19th and 20th centuries, we will also explore Native experiences in early America, and will contextualize later events with those interactions. We will examine Native responses to white settlement, diverse Native reservation experiences, and Native engagement with assimilationist policies like boarding schools and relocation to urban areas. We will also consider the modern era, including outcomes of the self-determination movement for more Native control over tribal governance and economic development. We will engage with literature, film, autobiography, and museum studies to explore these topics, while assessing them from a Native American Studies foundation. Fall.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Global Studies

Restriction(s):

Must be the following Class(es): Freshman, Junior, Senior, Sophomore

NTAS 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

NTAS 199 Indigenous Science credit(s): 2-3

Biology is the modern scientific study of life and the natural living world. This area of science has provided us with impressive advancements in our understanding of the natural world and human health. However, there exists an enormous amount of traditional indigenous knowledge about the natural world as well. This traditional knowledge is often complementary and convergent with modern science. However, there are significant differences in the ways that these different disciplines look at the world, and differences in what these perspectives can tell us. Spring, odd years.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Corequisite(s): BIOL 104L

NTAS 199L Biology and Indigenous Sci Lab credit(s): 1

See NTAS 199.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Corequisite(s): NTAS 199

NTAS 201 Philosophy of Human Nature credit(s): 3

Philosophy of Human Nature. Philosophical study of human nature, the human condition, the meaning and value of human life, and the human relationship to ultimate reality, with attention

to such issues as the nature and possible existence of the soul, the relation between body and mind, belief and knowledge, freedom vs. determinism, and the possibility of human immortality.

Fulfills the following degree requirement(s): Core: Phil of Human Nature

Equivalent(s): PHIL 201

NTAS 210 Indians of Columbia Plateau

credit(s): 3

This course will explore Native American groups on the Columbia Plateau, including their traditional lifestyles, traditional and colonial religions, the Salish language, and responses to settlement and government policies. We will also examine the traditions of cooperation and collaboration among these groups. We must understand the geography of the Plateau, in order to fully contextualize the importance of homeland and traditional practices, so this course represents place-based study of Native American history. Spring.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication NonW, Core: Social Justice, Core: Global Studies

Equivalent(s): HIST 110

NTAS 211 Introduction Native American History

credit(s): 3

Hundreds of Indigenous groups made their home in North America for centuries before European colonial expansion reached these shores. Native communities might describe this occupancy as 'since time immemorial.' This class will begin with an exploration of those earlier eras and will acknowledge that each Native community was/is distinct from other communities. Thus, while we can observe commonalities in Native experiences and histories, we will also conclude that there is no 'single' Native perspective. To develop this conclusion, we will assess processes of change over time across what we now know as the United States. This course will consider social and cultural approaches to preserving and passing down Native American histories as well as U.S. history interpretations of Native Americans' societies, cultures, economies, and spiritualities. "Texts" in this course will include history books, literature, images, and film, and we will create and respond to research questions using primary and secondary sources.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication NonW, Core: History Core: Social Justice, Core: Global Studies

Equivalent(s): HIST 111

NTAS 241 Indigenous Literature Alaska Hawai'i

credit(s): 3

This course explores Native Hawai'iian and Alaska Native cultures through their literatures. We will contextualize nonfiction and literary texts alike in the complicated histories of the lands that are now the United States' 49th and 50th states in terms of their Indigenous cultures and inhabitation, the annexation by the U.S., and the controversial moves into statehood in 1959. We will interrogate historical and contemporary realities and debates within and beyond Alaska and Hawai'i regarding sovereignty movements and U.S. imperialism, positioning these literatures in a trans-Indigenous global context. In this way we will work toward sophisticated understandings of important contributions to contemporary American literatures and the complexities of the contexts that influence literary production in Hawai'i, Alaska, and the world. All of the activities and assignments are designed to demonstrate the role of literature in

transnational politics of representation and the importance of formal and informal literary and textual analysis in the development of global awareness and citizenship.

Fulfills the following degree requirement(s): ENGL - History, NTAS - elective, Core: Literature, Core: Global Studies

Equivalent(s): ENGL 241

NTAS 290 Special Topics

credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by instructor.

NTAS 310 Native American Activism

credit(s): 3

Federal Indian policies and assertions of tribal sovereignty will provide context for discussions of Native American activism. We will discuss regional and national pan-Indian organizations, and we will also recognize the value of community-based activism. Local movements can include language preservation, restoration of traditional foods, community-designed and operated tribal museums and political engagement at all levels of government. Spring, every four years beginning 2014.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Global Studies

Equivalent(s): HIST 310

NTAS 311 Native American Govt and Politic

credit(s): 3

This course will see Native American government and politics in a milieu of intergovernmental relations, of community to community connections, or the lack of such relationships. Taking social justice as importantly about relationships, and doing so in respect of governing, this course will to study how (or how not) federal, state, and municipal governments interact with Native American governments. Spring, even years.

NTAS 320 Native American Art and Perform

credit(s): 3

This course will explore Native American modern art and the historical cultural and artistic practices which informs it. We will also explore Museum Studies as a profession of power and cultural continuity for Native American tribes, and we will review scholarship on Native American museums, including the National Museum of the American Indian. Finally, we will consider performance, in numerous contexts. How does ritual reflect both spirituality and performance? Spring, every four years beginning 2015. Core: Social Justice, Core: Global Studies
Core: Fine Art

NTAS 321 American Indian Literatures

credit(s): 3

This course is designed to introduce students to several important texts in the multifaceted genre of American Indian literature as well as to invite students into a critical discussion of contemporary issues centering on the relationship between American Indian literatures and contemporary sociopolitical and -cultural realities and issues. We will examine the role of American Indian literature in the continual process of cultural maintenance as well as identity (re-)construction. Through close reading of texts by writers from various tribes and regions, students will explore the heterogeneity of Native America and the complexities of all attempts to define or shape indigenous nationhood in the United States. We will contextualize these texts in discussions of social justice issues particular to Native America, including but not limited to the five definitions of genocide; geographical and cultural displacements; and "third world"

living conditions. We will also be engaged in dialogues about local and national American Indian cultures in cooperation with the American Indian Studies house on campus. Spring, odd years.

Fulfills the following degree requirement(s): ENGL - Literature post- 1914, ENGL - Multicultural Distribtn

Equivalent(s): ENGL 418

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

NTAS 322 Native American Religions **credit(s): 3**

Traditional Native cultures and contributions along with the cultural stereotypes that distort their reality. Includes the role of Christian missions in forming contemporary Native realities and studies the revitalization movements among North American tribes.

Fulfills the following degree requirement(s): RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 356

NTAS 340 Global Indigeneity **credit(s): 3**

This course is designed to explore the pre-colonial indigenous populations of North and South America, Australia, and New Zealand, and to compare the experiences of these groups as they encountered settlers and persisted throughout colonization processes. Every four years beginning 2019.

NTAS 341 Colonial Latin America **credit(s): 3**

A survey of colonial Latin America that examines the contact, conflict, and accommodation among Europeans, Native Americans, and Africans that shaped colonial Latin America.

Fulfills the following degree requirement(s): HIST - Latin American History, HIST - Race&Ethnic Communication NonW, NTAS - elective

Equivalent(s): HIST 380, INST 372

NTAS 359 Indigenous Early America **credit(s): 3**

This course will explore the history of Early America through Indigenous perspectives. It will consider the rich and diverse histories of North American tribes, analyze their varied responses to the processes of colonization, and connect these legacies to the present. Topics discussed include political engagement, commodities exchange, resource competition, religious encounters, gender roles, slavery, and racialization. Lectures, discussions, activities, and research will challenge students to re-imagine colonial North America as Native America by centering Indigenous actors.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication West

Equivalent(s): HIST 359

NTAS 389 History Plays: Fact and Fiction Story **credit(s): 3**

In the twenty-first century, American playwrights have increasingly begun to draw upon history to create dramas and comedies which add nuance and context to stories audiences think they already know. This class will use historiography — the study of historical writing — to reveal who has written history and why those scholars were imbued with authority to write the narratives they did. At the same time, we will investigate how playwrights are drawing upon/challenging/complicating those narratives and we will consider what “authority” means when Native-authored content, for example, is placed side-by-side with scholarship about (not

by) Native people. If you like stories, reading, and understanding why writing about the past carries both power and responsibility, this class is for you.

Fulfills the following degree requirement(s): NTAS - elective

Equivalent(s): HIST 389

NTAS 390 Native American Studies Topics

credit(s): 0-4

Topics to be determined by instructor.

Fulfills the following degree requirement(s): NTAS - elective

NTAS 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

NTAS 490 Directed Study

credit(s): 1-6

Course repeatable for 12 credit.

Topic to be decided by faculty.

NTAS 497 Experience Learning: Internship

credit(s): 0-6

Course repeatable for 6 credit.

Professional work experience in a field related to Native American Studies.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): NTAS 101

NTAS 498 Experiential Learning: Research

credit(s): 3

The Native American Studies minor at Gonzaga University requires completion of an experiential learning project. The project may either be an internship or a research paper. Must have permission of the NTAS Program Director. Fall, Spring, and Summer.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): NTAS 101, minimum grade: C

Neuroscience

Director: Kevin Measor

Professors: B. Swanson

Associate Professors: M. Nelson, C. Fink

Assistant Professors: D. Addleman, M. Sarrett, M. Lewis

Senior Lecturers: K. Measor

Lecturers: E. Marr

The program offers one major:

Bachelor of Science, Neuroscience major

Neuroscience is the study of the nervous system, encompassing aspects of biology, psychology, chemistry, physics and medicine to understand the complex mechanisms that underlie behavior, cognition, and disease. To prepare students for neuroscience-oriented careers in fields such as medicine, research, biotechnology, neuropsychology, and education, we offer a curriculum that integrates theoretical knowledge with practical experiences. Through rigorous coursework and hands-on laboratory training, students develop a deep understanding of neural function, from molecular and cellular levels to systems and behavior.

Students earning a Neuroscience degree at Gonzaga obtain:

- A comprehensive liberal arts education (through the university core curriculum)
- A foundational understanding of neuroscience principles (through core neuroscience courses)
- Interdisciplinary knowledge supporting neuroscience research (including courses in biology, chemistry, physics, human physiology, and psychology)
- The opportunity to explore specialized topics in depth through upper-division electives
- Practical skills and research experience, preparing them for graduate or professional programs, careers in healthcare, laboratory research, or combining their scientific training with other fields such as law, business, or the arts

B.S. Major in Neuroscience: 61 credits

Lower Division Requirements 38 credits

BIOL 105 Information Flow in Biological systems	3 credits
BIOL 105L Information Flow in Biological systems	1 credit
BIOL 106 Energy Flow in Biological systems	3 credits
BIOL 207/BIOL 207L Genetics and Lab	4 credits
NEUR 201 Introduction to Neuroscience	3 credits
CHEM 101/101L General Chemistry	4 credits
CHEM 230/CHEM 230L Organic Chemistry I and Lab	4 credits
PSYC 101 General Psychology	3 credits
One of the following course and lab combinations:	5 credits
PHYS 111/PHYS 111L General Physics I and Lab	
PHYS 121/PHYS 121L Physics I and Lab	
One of the following course and lab combinations:	
PHYS 112/PHYS 112L General Physics II and Lab	
PHYS 122/PHYS 122L Physics II and Lab	
Required Statistics course: (choose one course)	3 credits
PSYC 202 Statistics for Psychology	
MATH 121 Introductory Statistics	
MATH 221 Applied Statistics	
HPHY 205 Experimental Design and Stats	3 credits

Upper Division Requirements 23 credits

NEUR 399 Scientific Communication	2 credits
NEUR 499 Neuroscience and Society	3 credits
BIOL 376 Cellular	3 credits
HPHY 451 Systems Neuroscience	3 credits
HPHY 453 Neuroanatomy	3 credits
Choose at least nine credits from any of these courses in any combination from any area:	9 credits

Cellular and Molecular

- BIOL 374 Immunology
- BIOL 375 Virology
- BIOL 337 Developmental Biology
- BIOL 351 Advanced Cell Biology
- BIOL 331 Parasitology
- BIOL 370/BIOL 370L Microbiology and Lab
- BIOL 456/BIOL 456L Molecular Biology and Lab
- BIOL 335 Advanced Genetics
- HPHY 479 Cell and Molecular Physiology
- BIOL 338/BIOL 338L Histology

BIOL 341/BIOL 341L Human Physiology and Lab
BIOL 371/BIOL 371L Vertebrate Biology and Lab
HPHY 402 Clinical Exercise Physiology
HPHY 485 Biomedical Engineering
HPHY 376/BIOL 376L Exercise Physiology and Lab
HPHY 478 Physiology of Aging
BIOL 441 Advanced Animal Physiology
BIOL 451/BIOL 451L Comparative Endocrinology and Lab
HPHY 452 Neuromuscular Control

Philosophical

PHIL 406 Philosophy of Mind
PHIL 404 Philosophy of Science
PHIL 437 Philosophy of Time
PHIL 478 Philosophy of Technology

Computational

BIOL 305 Biological Data Analysis
PSCY 450 Advanced Statistics in Psych
CPSC 475 Speech and Natural Language Processing
CPSC 436 Biomedical Informatics and Computing
PHYS 412 Biophysical Systems & Modeling

Behavioral

BIOL 313 Animal Behavior
PSYC 305 Sensation and Perception
PSYC 310 Cognition
PSYC 315 Learning
PSYC 390 Psychopathology
PSYC 395 Clinical Neuropsychology
PSYC 364 Abnormal Child Psychology
SOC 354 Sociology of Mental Illness

Philosophy

Chairpersons: Co-Chairs, Jay Ciaffa and Timothy Weidel

Director of the Philosophy Graduate Program: Danielle Layne

Professors: M. Alfino, K. Besmer, D. Bradley, P. Burke, D. Calhoun, J. Ciaffa, B. Clayton (Emeritus), B. Henning, T. Jeannot, D. Kries, D. Layne, W. Pomerleau (Emeritus), E. Schmidt, M. Tkacz, R.M. Volbrecht (Emeritus)

Associate Professors: T. Clancy, S.J., T. Di Maria, M. Kulp, C. Lassiter, Q. Liu, E. Maccarone, T. Tritten, J. Wagner (Emeritus), T. Weidel

Assistant Professors: K. Fisher, D. Spearman, G. Turnbull

Lecturers: A. Arango, J. Braune, A. Fisher, C. Rogers, N. Shoaibi

The department offers one major and one minor:

Bachelor of Arts, Philosophy major (optional Kossel concentration)

Minor in Philosophy

Philosophy has played a central role in Jesuit education since its inception, a tradition that is reflected by the place of philosophy in the Gonzaga University Core curriculum. Philosophy courses included as part of the University Core curriculum for all undergraduate programs aid students in developing skills of thought and logical analysis (PHIL 101), introduce students to sustained reflection on basic questions of human nature and personhood (PHIL 201), and examine the practical and theoretical considerations relevant to human morality and value (PHIL 301). The department offers 400-level philosophy courses on a wide variety of topics, which serve to integrate work in the University Core curriculum, and to encourage students to reflect on their future roles in the world.

The Philosophy Department also offers courses leading to the Bachelor of Arts degree with a major or minor in philosophy. Beyond the philosophy courses that fulfill the University Core (101, 201, 301, 432), students must complete an additional 9 credits of upper-division course work for a Philosophy Minor, and an additional 24 credits for a Philosophy Major. The major includes a 3-course sequence in the history of philosophy; topical seminars that focus on philosophical research, discussion, and writing; and a broad range of 400-level electives, which allows students to develop a program of studies tailored to their own interests. Each student is required to take at least one course in contemporary philosophy, and one course in ethics or political philosophy. Majors must take at least two philosophy seminars and minors must take at least one. These seminars are identified by their numbers (PHIL 400-430) and they will all carry a Writing Enriched designation, which fulfills a requirement of the University Core curriculum.

Students may also earn a Philosophy Major by completing the department's Kossel Concentration in Philosophical Studies. The Kossel Concentration follows the course of studies established for the training of college seminarians by the Program of Priestly Formation of the

United States Conference of Catholic Bishops. The goal of the Kossel Concentration, as stated in the Program, is for students (1) to organize and synthesize their study of the liberal arts through the study of philosophy and (2) to prepare for the study of theology in the post-baccalaureate seminary. Although specifically designed for the students of Bishop White Seminary, the Kossel Concentration is open to all Gonzaga students. The curricular requirements for the Kossel Concentration include all of the requirements of the regular Philosophy Major, but students in the Kossel Concentration must devote their elective courses to traditional areas of Catholic philosophy. They must also complete extra courses in Latin. The Kossel Concentration is named after the late Clifford Kossel, S.J., who taught philosophy at Gonzaga for most of his adult life.

An undergraduate Major in Philosophy is useful preparation for a variety of careers. The focus on logic, argumentation, and moral theory is valuable to students with career plans in law. Students with interests in business, public policy, or government service can benefit from the many courses which provide reflective analysis on the ways in which political, moral, and social values are embedded in social institutions. A degree in philosophy can be valuable when applying to a variety of professional schools which actively look for liberal arts majors and to employers who do the same.

B.A. Major in Philosophy: 36 Credits

Lower Division

PHIL 101 Reasoning	3 credits
PHIL 201 Philosophy of Human Nature	3 credits

Upper Division

PHIL 301 Ethics	3 credits
PHIL 305 History of Ancient Philosophy	3 credits
PHIL 310 History of Medieval Philosophy	3 credits
PHIL 320 History of Modern Philosophy	3 credits
PHIL 400-level elective courses *	12 credits
<i>Two PHIL 400-430 Philosophy Seminars *</i>	6 credits
PHIL 499 Senior Exit Requirement	0 credits

* **Note:** Of the 18 credits in 400 level student selected coursework, students must complete one course in Contemporary Philosophy and one course in Ethics or Political Philosophy from the courses listed below.

Contemporary Philosophy:

- PHIL 406 Philosophy of Mind
- PHIL 416 Marxism
- PHIL 418 Special Topics: Contemporary Seminar
- PHIL 421 American Philosophy
- PHIL 423 Process Philosophy
- PHIL 425 Phenomenology
- PHIL 427 Major Figures and Movements
- PHIL 428 Philosophical Hermeneutics

PHIL 442 Philosophy of Sex and Gender
 PHIL 454 Existentialism
 PHIL 492 Special Topics: Contemporary Philosophy

Ethics or Political Philosophy:

PHIL 414 Ancient Concepts of Justice
 PHIL 416 Marxism
 PHIL 419 Special Topics: Ethics or Political Seminar
 PHIL 426 Political Philosophy
 PHIL 427 Major Figures and Movements
 PHIL 443 Dorothy Day and the Catholic Worker Movement
 PHIL 453 International Ethics
 PHIL 455 Health Care Ethics
 PHIL 456 Feminist Ethics
 PHIL 458 Environmental Ethics
 PHIL 459 Ethics of Eating
 PHIL 460 Ethics: Global Climate Change
 PHIL 462 Theories Solidarity and Social Justice
 PHIL 493 Special Topics: Ethics or Political Philosophy

Kosel Concentration: 44 Credits (major + concentration)

Lower Division

PHIL 101 Reasoning	3 credits
PHIL 201 Philosophy of Human Nature	3 credits
LATN 101 Elementary Latin I	4 credits
LATN 102 Elementary Latin II	4 credits

Upper Division

PHIL 301 Ethics	3 credits
PHIL 305 History of Ancient Philosophy	3 credits
PHIL 310 History of Medieval Philosophy	3 credits
PHIL 320 History of Modern Philosophy	3 credits
PHIL 403 Christian Metaphysics	3 credits
PHIL 400-level elective courses *	12 credits
<i>One PHIL 400-430 Philosophy Seminars *</i>	3 credits
PHIL 499 Senior Exit Requirement	0 credits

* **Note:** Of the 15 credits in 400 level student selected coursework, students must complete one course in Contemporary Philosophy and one course in Ethics or Political Philosophy from the courses listed above.

Minor in Philosophy: 21 Credits

Lower Division

PHIL 101 Reasoning	3 credits
PHIL 201 Philosophy of Human Nature	3 credits

Upper Division

PHIL 301 Ethics	3 credits
PHIL 400-430 Seminar	3 credits
PHIL 300 and/or 400 level courses	9 credits

Master of Arts in Philosophy (PHIL) 4+1 Program:

Majors interested in pursuing a Master of Arts in Philosophy (PHIL) may apply to the graduate program at the end of the academic year immediately preceding their final year of undergraduate study. Those who meet the PHIL admissions standards will be granted provisional acceptance. During their final year of undergraduate study, these students will be able to enroll in up to nine graduate-level PHIL credits in addition to their undergraduate course load, with no additional or separate charge for graduate credits. "4+ 1" students will be limited to a maximum of 18 credits per semester, including graduate credits, in each of the two semesters of their final year of undergraduate study.

Courses:

PHIL 101 Reasoning **credit(s): 3**

This course helps students develop the foundational skills of critical reading, thinking, analysis, and writing. Students will analyze and evaluate different approaches to formal and informal arguments, reconstruct arguments from a range of sources, assess the quality of various types of evidence, and demonstrate careful use of statistics.

Fulfills the following degree requirement(s): Core: Reasoning

Equivalent(s): PHIL 102H

PHIL 101H Reasoning - Honors **credit(s): 3**

This course helps students develop the foundational skills of critical reading, thinking, analysis, and writing. Students will analyze and evaluate different approaches to formal and informal arguments, reconstruct arguments from a range of sources, assess the quality of various types of evidence, and demonstrate careful use of statistics.

Equivalent(s): PHIL 102H

PHIL 190 Directed Study **credit(s): 1-6**

Course repeatable for 9 credit.

Topic to be determined by faculty.

PHIL 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by

faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

PHIL 201 Philosophy of Human Nature **credit(s): 3**

Philosophical study of human nature, the human condition, the meaning and value of human life, and the human relationship to ultimate reality, with attention to such issues as the nature and possible existence of the soul, the relation between body and mind, belief and knowledge, freedom vs. determinism, and the possibility of human immortality. Fall and Spring.

Fulfills the following degree requirement(s): Core: Phil of Human Nature

Equivalent(s): PHIL 201H

Prerequisite(s): PHIL 101 and FYS (193)

PHIL 201H Philosophy of Human Nature Honors **credit(s): 3**

Philosophical study of human nature, the human condition, the meaning and value of human life, and the human relationship to ultimate reality, with attention to such issues as the nature and possible existence of the soul, the relation between body and mind, belief and knowledge, freedom vs. determinism, and the possibility of human immortality. Fall. For Honors students.

Equivalent(s): PHIL 201

Prerequisite(s): HONS 190 and PHIL 101H and PHIL 101

PHIL 280 Persons and Conduct **credit(s): 3**

Two basic dimensions of philosophical investigation are inquiry into the nature and meaning of our being human (the philosophy of human nature) and inquiry into the right life and conduct of a human being (ethics). This course undertakes these closely related investigations from a personalist perspective.

Restriction(s):

Must be in the following Major(s): Nursing

Equivalent(s): CLAS 240

PHIL 290 Directed Study **credit(s): 1-6**

Course repeatable for 9 credit.

Topic to be determined by faculty.

PHIL 301 Ethics **credit(s): 3**

A general theory of the goals of human life and the norms of moral behavior; the theory will be applied to several specific moral problems. Fall and Spring.

Fulfills the following degree requirement(s): Core: Ethics

Equivalent(s): PHIL 301H

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 301H Ethics - Honors **credit(s): 3**

A general theory of the goals of human life and the norms of moral behavior; the theory will be applied to several specific moral problems. Spring.

Equivalent(s): PHIL 301

Prerequisite(s): PHIL 201

PHIL 305 History of Ancient Philosophy **credit(s): 3**

A survey of major figures and developments in ancient Greek and Hellenistic philosophy from Thales to Plotinus, using texts in translation. Philosophy major, or minor status, or by permission of Department Chair. Fall.

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course

Equivalent(s): PHIL 401

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): (PHIL 101 and FYS (193)) or PHIL 201

PHIL 310 History of Medieval Philosophy **credit(s): 3**

A survey of the major philosophical movements in the Latin, Greek, and Arabic traditions from the seventh to the fourteenth centuries. Spring.

Equivalent(s): CATH 340

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 305

PHIL 320 History of Modern Philosophy **credit(s): 3**

A survey from Descartes through Hegel. Spring.

Equivalent(s): PHIL 410

Prerequisite(s): PHIL 305

PHIL 389 Ethics and Service Learning **credit(s): 1**

A service learning seminar that may be taken in conjunction with specified sections of PHIL 301. Students discuss and apply ways by which to communicate with Spokane-area youth (primarily middle- and high-school age) what they are learning about ethics and character.

Corequisite(s): PHIL 301

Prerequisite(s): PHIL 201

PHIL 390 Medical Ethics Internship **credit(s): 3**

Course repeatable for 9 credit.

Through the internship, students will become familiar with the kinds of ethical issues that arise in a major medical facility such as Sacred Heart Medical Center and understand how those issues are addressed. Students will be asked to reflect on the difference between abstract, theoretical discussions of health care ethics and their concrete, particular manifestations in the lives of patients, families, and professional staff.

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

PHIL 391 Directed Study **credit(s): 1-6**

Course repeatable for 9 credit.

Topic to be determined by faculty.

PHIL 403 Christian Metaphysics **credit(s): 3**

A philosophical articulation of the Christian worldview is provided by classical metaphysics as developed in the Thomistic tradition. This seminar will study the hylomorphic principles of nature, the cosmological argument for the existence of God, the real distinction of being and essence, the nature of divine causality, the analogy of being, ontological participation, and the transcendental properties of being. Fall, every year.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Equivalent(s): CATH 441

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 406 Philosophy of Mind **credit(s): 3**

Treatment of the nature and functional capacities of the mind and the philosophical problems raised by analysis of the mind, including mind and body, materialistic reductionism, other minds, freedom, and personality.

Fulfills the following degree requirement(s): PHIL - Contemporary

Equivalent(s): PHIL 448

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 101 and PHIL 201

PHIL 413 Theory of Knowledge **credit(s): 3**

The concepts of knowledge and belief have been of central philosophical concern since the pre-Socratics. In this course, we will consider historical and contemporary contributions to answer the following questions: (1) What is the value of knowledge? (2) What can I know? (3) What can I learn from others? (4) What can I know of myself? (5) Can I know something without being able to say how I know it? (6) How does society shape what I and others know? Historical sources will include Plato, Aristotle, Augustine, Aquinas, Descartes, Reid, and Hume.

Equivalent(s): PHIL 440

Prerequisite(s): PHIL 201

PHIL 414 Ancient Concepts of Justice **credit(s): 3**

Many Modern theories of social justice rest upon models developed in classical antiquity. Similarly, many modern institutions and laws relating to justice have ancient precursors. This course examines major classical texts dealing with justice: selected Pre-Socratic texts; Plato, Republic; Thucydides, History of Peloponnesian war, Aristotle, Nicomachean Ethics, Book V, selections from Cicero; selections from other Hellenistic and late Roman authors (including Augustine).

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course, PHIL - Ethics or Political, SOSJ - Block A

Equivalent(s): PHIL 481, SOSJ 412

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): PHIL 101 and PHIL 201

- PHIL 416 Marxism** **credit(s): 3**
 Some major writings of Marx, the social and intellectual history of Marxism, the relationship between Marxist theory and revolutionary practice, and contemporary problems in Marxism.
Fulfills the following degree requirement(s): PHIL - Contemporary, PHIL - Ethics or Political
Prerequisite(s): PHIL 201
- PHIL 418 Special Topic: Contemporary Seminar** **credit(s): 3**
 Course repeatable for 12 credit.
 Topics will be determined by the instructor.
Fulfills the following degree requirement(s): PHIL - Contemporary
Prerequisite(s): PHIL 201
- PHIL 419 Special Topic: Ethics/Political Seminar** **credit(s): 3**
 Course repeatable for 12 credit.
 Topics will be determined by the instructor.
Fulfills the following degree requirement(s): PHIL - Ethics or Political
Prerequisite(s): PHIL 201
- PHIL 421 American Philosophy** **credit(s): 3**
 A study of major figures in the American philosophical tradition.
Fulfills the following degree requirement(s): PHIL - Contemporary
Prerequisite(s): PHIL 201
- PHIL 423 Process Philosophy** **credit(s): 3**
 Philosophers such as Bergson and Whitehead, who regard creative process as the essence of the real.
Fulfills the following degree requirement(s): PHIL - Contemporary
Prerequisite(s): PHIL 201
- PHIL 425 Phenomenology** **credit(s): 3**
 Some proponents of phenomenological philosophy stemming from Husserl.
Fulfills the following degree requirement(s): PHIL - Contemporary
Prerequisite(s): PHIL 201
- PHIL 426 Political Philosophy** **credit(s): 3**
 An examination of the nature and norms of political life, with attention to major historical themes in the light of contemporary relevance.
Fulfills the following degree requirement(s): PHIL - Ethics or Political
Equivalent(s): PHIL 451
Restriction(s):
 Must be the following Class(es): Junior, Senior, Sophomore
Prerequisite(s): PHIL 101 and PHIL 201
- PHIL 427 Major Figures and Movements** **credit(s): 3**
 Course repeatable for 12 credit.
 An in-depth exploration of the work of a single figure or movement in the history of philosophy.
Prerequisite(s): PHIL 101 and PHIL 201
- PHIL 428 Philosophical Hermeneutics** **credit(s): 3**
 Allied with phenomenology, philosophical hermeneutics struggles not only with interpreting patterns of meaning in classical philosophical texts, but also with interpreting patterns of

meaning in human existence, based on the model of the text.

Fulfills the following degree requirement(s): PHIL - Contemporary

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 429 Special Topics: Philosophy Seminar

credit(s): 3

Course repeatable for 12 credit.

Topic will be determined by the instructor.

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201, minimum grade: C

PHIL 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

PHIL 434 Chinese Philosophy

credit(s): 3

A survey of the history of Chinese philosophy focusing on the Confucian tradition and taking other traditions such as Taoism and Buddhism into account.

Fulfills the following degree requirement(s): INST - Asian Studies content, Core: Core Integration Seminar

Equivalent(s): INST 396

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 435 C.S. Lewis

credit(s): 3

This course examines Lewis, the Christian intellectual, as his participation in the Christian theistic tradition and his philosophical training exhibit themselves in his fictional, philosophical

and theological works.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Equivalent(s): PHIL 417

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 437 Philosophy of Time

credit(s): 3

This course looks at answering the question "What is time?" This is done by looking at ancient and modern arguments surrounding the structure, experience and models of time.

Prerequisite(s): PHIL 201

PHIL 440 Africana Philosophy

credit(s): 3

This philosophy course will address this question through an investigation of slave narratives, decolonial political theory, philosophy of religion and Black aesthetics. We will address questions such as: What does the emergence of the struggle for liberation by Black people around the world mean for the future of our planet? Students who take this course will wrestle with the challenges posed by various thinkers from Africa and the Diaspora to the dehumanizing systems of colonialism as well the legacy of these traditions of resistance.

Equivalent(s): CATH 440

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 441 Symbolic Logic

credit(s): 3

The study of modern symbolic logic (propositional and predicate). Metalogical issues (the syntax and semantics of formal systems) are discussed.

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 442 Philosophy of Sex and Gender

credit(s): 3

Analyzes the concepts of sex, sexuality, and gender by working with authors across traditions and disciplines. We will be particularly concerned with the roles that sex, sexuality and gender have on identity formation/subversion while also questioning whether some or all of these concepts are essential/natural or socially constructed.

Fulfills the following degree requirement(s): CRES - Elective course, PHIL - Contemporary, Core: Core Integration Seminar

Equivalent(s): WGST 434

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 443: Dorothy Day and the Catholic Worker Movement

credit(s): 3

This course investigates the life, times, and leading ideas of Dorothy Day and the Catholic Worker Movement in a variety of disciplinary contexts, including history, philosophy, and

religious, women's, and social justice studies.

Equivalent(s): CATH 443

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 446 Phil Reflection Christianity and Science **credit(s): 3**

Philosophical inquiry into the historical relationship between Christian religious doctrine and the knowledge imparted by the sciences, with focus on particular episodes such as the Galileo affair and the Darwinian revolution.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Restriction(s):

 Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

Prerequisite(s): PHIL 201

PHIL 453 International Ethics **credit(s): 3**

The moral structure of the international community in the context of problems such as war, foreign aid, and transnational migration.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): INST 350

Restriction(s):

 Must be in the following Major(s): Philosophy

 Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201 or PHIL 301

PHIL 454 Existentialism **credit(s): 3**

The movement from Kierkegaard to the present.

Fulfills the following degree requirement(s): PHIL - Contemporary, Core: Core Integration Seminar

Equivalent(s): PHIL 424

Restriction(s):

 Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 455 Health Care Ethics **credit(s): 3**

Ethical concepts and issues in the medical field: personhood, relationship between health care professional and patient, experimentation, rights to health care, and allocation of health care resources.

Fulfills the following degree requirement(s): HEAL - Electives, Leadership elective, PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 352S

Restriction(s):

 Must be in the following Major(s): Nursing, Philosophy

 Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

PHIL 456 Feminist Ethics**credit(s): 3**

Explores women's experiences of oppression and some of the ways in which this has marginalized their concerns and their perceptions of the moral dimension. Feminist contributions to rethinking the concept of moral agency, the traditionally sharp distinction between the public and private domains, the relevance of personal relationships to ethics, and the process of moral development and moral decision-making are considered. Spring, odd years.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar, Women's & Gender Studies

Equivalent(s): WGST 435

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 458 Environmental Ethics**credit(s): 3**

The detailed philosophical study of humanity's understanding of its relationship to the natural environment, concentrating on historically prominent conceptions of that relationship, and the philosophical foundation of the contemporary environmental movement. Fall and Spring.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): ENVS 358

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C

PHIL 459 Ethics of Eating**credit(s): 3**

An examination of ethical issues surrounding the consumption, production and transportation of food. Issues such as organic food, GMOs, vegetarianism, local and slow food movements, and hunger may be covered. Ethical issues surrounding both local and international food issues are treated.

Fulfills the following degree requirement(s): HEAL - Electives, PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): ENVS 381

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 460 Ethics: Global Climate Change**credit(s): 3**

Many have described global climate change as the defining challenge of the 21st century, noting that unless dramatic changes are made today, future generations will suffer terrible consequences, such as rising seas, wars over fresh water, tens of millions of environmental refugees, and the extinction of species such as the polar bear. This course will investigate the complex technological, historical, economic, scientific, political, and philosophical issues

surrounding this issue. Global warming skeptics are especially encouraged to enroll. Spring and Summer.

Fulfills the following degree requirement(s): PHIL - Ethics or Political

Equivalent(s): ENVS 350

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 462 Theories Solidarity and Social Justice

credit(s): 3

This course is designed to fulfill one of the requirements of the Solidarity and Social Justice minor. It builds on the background provided by other courses in the SOSJ minor and the University Core by focusing more explicitly on the role public reason plays in the pursuit of solidarity and social justice. The course will ask "What is justice and how is it related to human solidarity? How do we ground claims about solidarity and social justice through an appeal to reason? What role should reason play in shaping our models of justice and what role can it play in the promotion of solidarity and social justice?"

Fulfills the following degree requirement(s): PHIL - Ethics or Political, SOSJ - Block A, Core: Core Integration Seminar

Equivalent(s): PHIL 408, SOSJ 410

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 465 Philosophy of Religion

credit(s): 3

A study of the nature of religious experience and practice, and how religious language and belief relate to science, morality and aesthetics. Included is also a study of what is meant by 'God,' divine attributes and proofs for and against God's existence.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 466: Philosophy of Religion and Technology

credit(s): 3

This class explores the evolving nature of religious belief and practice in its symbiotic interdependence with humanity's evolving technologies. The course culminates in a month long exploration of the new religious needs of today's digital natives for whom literate institutional religion seems less and less inspiring or even relevant. Throughout the course students will be asked to reflect over and apply insights learned to their own lives and to contemporary society.

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 467 Faith and Reason

credit(s): 3

This course will address a cluster of fundamental problems of faith and reason--the nature of knowledge, especially in connection with religious claims, evidence for the existence of God,

the relevance of recent advances in cosmology to the Christian world view, the problem of evil and suffering, and the challenge of atheism.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, Core: Core Integration Seminar

Equivalent(s): CATH 440

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 475 Philosophy of the Visual Arts

credit(s): 3

Examines contemporary applied theories of art in a variety of visual art media including painting, sculpture, film, and photography.

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 478 Philosophy of Technology

credit(s): 3

This course in applied philosophy involves reflection and self-understanding of our technology-saturated world. Examinations of well-known philosophers' writings on technology will be covered. Course goals include a deeper, more reflective understanding of the nature of technology, its role in our lives, its ethical implications, its political ramifications and its relation to society.

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 484 Major Figures and Movements

credit(s): 3

An in-depth exploration of the work of a single figure or movement in the history of philosophy.

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 485 Philosophy in Film

credit(s): 3

Many current films raise first-order philosophical questions or issues, though few films are particularly good at solving those same problems or resolving the conflict underlying the issues. This course seeks to explore many contemporary films (none older than "Blade Runner") and the philosophical issues they raise, both by their explicit content and by their implicit content. Metaphysical issues about the mind and body relationship, the nature and extent of free will, and the nature of personal identity will be included. Some epistemological issues having to do with how well we can expect to have access to reality, and what might be among the impediments to the access will also be included. The course generally avoids treating ethical or moral issues, but also takes an interest in the use of the emotions in films, the treatment of

violence and human sexuality in films and the nature of comedy in films. Some attention will also be given to film techniques, especially from the point of view of the audience.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, Core: Core Integration Seminar

Equivalent(s): FILM 470

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 489H Honors Seminar

credit(s): 3

Topics and credit by arrangement. Spring or Fall.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): HONS 190

PHIL 490 Directed Study

credit(s): 0-6

Course repeatable for 9 credit.

Topics and credits by arrangement.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 201

PHIL 491 Special Topics

credit(s): 3

Course repeatable for 12 credit.

Topics to be determined by the instructor.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 492 Special Topics: Contemporary

credit(s): 3

Course repeatable for 12 credit.

Topics will be determined by the instructor.

Fulfills the following degree requirement(s): PHIL - Contemporary, Core: Core Integration Seminar

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 493 Special Topics: Ethics/Political

credit(s): 3

Course repeatable for 12 credit.

Topics will be determined by the instructor.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar

Restriction(s):

Must be in the following Major(s): Philosophy

Prerequisite(s): PHIL 201

PHIL 495 Study Abroad Special Topics **credit(s): 1-15**

Course repeatable for 15 credit.

To be determined by the department.

PHIL 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Professional work experience in Philosophy-related field. Student is responsible for identifying an agency and faculty supervisor. Does not count towards program electives for the major or minor.

Prerequisite(s): PHIL 201

PHIL 498 Research **credit(s): 1-3**

Course requires permission of instructor and Department Chair.

PHIL 499 Senior Exit Requirement **credit(s): 0**

Restriction(s):

Must be in the following Major(s): Philosophy

Must be the following Class(es): Senior

Prerequisite(s): PHIL 201

Physics

Chairperson: Nicole J. Moore

Professors: E. Aver, J. Bierman, J. Byrne (Emeritus), A. Greer, E. Kincanon

Associate Professors: C. Fink, A. Fritsch, M. Geske, N. Moore

Senior Lecturer: H. Hoeck-Mills

Lecturer: B. Parris

Senior Lab Specialist: J. Kemper

Lab Specialists: D. Buckley, L. Stevens

Students pursuing Physics have a choice of attaining the following degrees:

Bachelor of Science, Physics major

Disciplinary Concentrations:

Fundamental Physics Concentration

Medical Physics Concentration

Applied Physics Concentration

Astrophysics Concentration

Materials Physics Concentration

Bachelor of Arts, Physics Major

Minor in Physics

The Bachelor of Science in Physics is designed to prepare students for graduate study and careers in physics or closely related fields in STEM. Students are expected to declare their major in Physics in their first year of study. All students must declare a concentration. The five disciplinary concentrations share a common broad base of physics classes, with specialization occurring during the final years of study. The two interdisciplinary concentrations include substantial coursework in at least two other disciplines in addition to physics coursework, so specialization must occur sooner in order to facilitate timely completion.

The Bachelor of Arts in Physics is designed for students who do not intend to pursue further study in physics or closely related fields, although they may plan to pursue graduate studies in education, law, business, social sciences, the arts, or the humanities. It should be declared no later than the beginning of the second year of study and does not require a concentration. It offers a greater degree of flexibility than the Bachelor of Science, which enables students to pursue a second major, a teaching certification, or other interests.

The concentrations, as well as the B.A., allow students to closely align their course of study with their interests and career aspirations, whether that includes graduate or professional school or entering the workforce directly after their time at Gonzaga. Students who declare late, switch between concentrations, or plan to study abroad may be accommodated by arrangement with the department.

Lower and upper division courses are designed for students to gain proficiency in hands-on, experimental physics and theoretical physics. Majors in Physics will also acquire a familiarity with scientific computation and the use of computers to model and solve physical problems. Summer research opportunities within the department, as well as with other programs, such as Research Experience for Undergraduates (REU) programs, are encouraged.

More information is available on the Physics website and the department's MyGU website.

B.S. Major in Physics: 62- 67 credits

Shared Base: 49 credits

PHYS 121/PHYS 121L Physics I and Physics I Lab	5 credits
PHYS 122/PHYS 122L Physics II and Physics II Lab	5 credits
PHYS 180 Physics Skills Seminar	1 credit
PHYS 280 Physics Pathways Seminar	1 credit
MATH 157 Calculus and Analytical Geometry I	4 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
CPSC 121 Computer Science I	3 credits
PHYS 201 Mathematical Methods	3 credits
PHYS 222 Electronics	2 credits
PHYS 224 Modern Physics	3 credits
PHYS 321 Classical Mechanics	3 credits
PHYS 322 Electricity & Magnetism	3 credits
PHYS 323 Statistical Mechanics	3 credits
PHYS 324 Quantum Mechanics	3 credits
PHYS 325 Computational Physics	2 credits
PHYS 441 Advanced Laboratory I	2 credits
PHYS 442 Advanced Laboratory II	2 credits

Physics majors are also encouraged to take:

MATH 259 Calculus and Analytical Geometry III

MATH 260 Ordinary Differential Equations

MATH 339 Linear Algebra

and additional CPSC courses.

Choose one of the following five concentrations:

Fundamental Physics Concentration: 15 Credits

Medical Physics Concentration: 18 credits

Applied Physics Concentration: 15 credits

Astrophysics Concentration: 14 credits

Materials Physics Concentration: 13 credits

Fundamental Physics Concentration: (+15 Credits) 64 credits total

CPSC 222 Introduction to Data Science	3 credits
PHYS 424 Advanced Quantum Mechanics	3 credits
PHYS 451 Fields, Oscillations, & Relativity	3 credits
Two of the following five courses:	6 credits
PHYS 452 Optics	
PHYS 453 Solid State Physics	
PHYS 454 Nuclear & Particle Physics	
PHYS 455 Cosmology & Astrophysics	
PHYS 456 Biophysical Systems & Modeling	

Medical Physics Concentration: (+18 credits) 67 credits total

CHEM 101/CHEM 101L General Chemistry and Lab	4 credits
BIOL 105/BIOL 105L Information Flow in Biological Systems and Lab	4 credits
HPHY 241/HPHY 241L Human Anat & Phys I and Lab	3 credits
PHYS 454 Nuclear & Particle Physics	3 credits
PHYS 456 Biophysical Systems & Modeling	3 credits
Recommended (not required): BIOL 106 & HPHY 242 / HPHY 242L	

Applied Physics Concentration: (+15 credits) 64 credits total

CPSC 222 Introduction to Data Science	3 credits
MATH 321 Statistics for Experimentalists	3 credits
PHYS 452 Optics	3 credits
PHYS 453 Solid State Physics	3 credits
PHYS 456 Biophysical Systems & Modeling	3 credits

Astrophysics Concentration: (+14 credits) 63 credits total

PHYS 105 Astronomy	2 credits
CPSC 222 Introduction to Data Science	3 credits
PHYS 451 Fields, Oscillations, & Relativity	3 credits
PHYS 454 Nuclear & Particle Physics	3 credits
PHYS 455 Cosmology & Astrophysics	3 credits

Materials Physics Concentration: (+13 credits) 62 credits

CHEM 101/CHEM 101L General Chemistry and Lab	4 credits
MENG 221 Materials Engineering	3 credits
PHYS 424 Advanced Quantum Physics	3 credits
PHYS 453 Solid State Physics	3 credits

B.A. Major in Physics: 52 Credits

PHYS 121/PHYS 121L Physics I and Physics II Lab	5 credits
PHYS 122/PHYS 122L Physics II and Physics II Lab	5 credits
PHYS 180 Physics Skills Seminar	1 credit
PHYS 280 Physics Pathways Seminar	1 credit
MATH 157 Calculus and Analytical Geometry I	4 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
CPSC 121 Computer Science	3 credits
PHYS 201 Mathematical Methods	3 credits
PHYS 224 Modern Physics	3 credits
PHYS 321 Classical Mechanics	3 credits
PHYS 322 Electricity & Magnetism	3 credits
PHYS 323 Statistical Mechanics	3 credits
PHYS 324 Quantum Mechanics	3 credits
PHYS 325 Computational Physics	2 credits
PHYS 441 Advanced Laboratory I	2 credits
PHYS 442 Advanced Laboratory II	2 credits
Two of the following eight courses: (5 credits)	
PHYS 222 Electronics	2 credits
PHYS 424 Advanced Quantum Mechanics	3 credits
PHYS 451 Fields, Oscillations, & Relativity	3 credits
PHYS 452 Optics	3 credits
PHYS 453 Solid State Physics	3 credits
PHYS 454 Nuclear & Particle Physics	3 credits
PHYS 455 Cosmology & Astrophysics	3 credits
PHYS 456 Biophysical Systems & Modeling	3 credits

Minor in Physics: 27 Credits

Lower Division

PHYS 121/PHYS 121L Physics I and Physics I Lab	5 credits
PHYS 122/PHYS 122L Physics II and Physics II Lab	5 credits
PHYS 224 Modern Physics	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
MATH 258 Calculus and Analytical Geometry II	4 credits

Upper Division

PHYS 222 and PHYS 321 and above	6 credits
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To satisfy the minor, at least one of the chosen electives must be a 300 or 400 level 3-credit course. With prior Department Chair approval, PHYS 390, PHYS 490, PHYS 497, and PHYS 499 may count toward the minor. Additionally, with prior Department Chair approval, PHYS 201 may satisfy two credits toward the minor.

Courses:

PHYS 104 Scientific Inquiry **credit(s): 3**

This course is an integrated course and lab experience satisfying the Core Scientific Inquiry requirement. The course is designed and intended for non-science majors. The topics will be developed conceptually, with the required mathematics not exceeding high school algebra and trigonometry. The specific content will vary with instructor. The course title in Zagweb will identify the focus of the lecture course material. The integrated, open lab experience focuses on developing an understanding of the scientific method and the processes of science, including measurement, modeling, and analysis. The lab experience includes hands-on activities and experiments highlighting the covered processes and delivered in an open lab time format. The lab will be open and staffed on Tuesdays and Thursdays for students to come in and complete that week's lab on their own schedule. Fall and Spring.

Fulfills the following degree requirement(s): Science class - non-sci Majors, Core: Science Inquiry

Equivalent(s): PHYS 105

Restriction(s):

Must be the following Class(es): Freshman

PHYS 105 Astronomy **credit(s): 2**

Introductory astronomy. An overview of the celestial objects found within the universe, such as stars, planets, and galaxies. For physics majors and PHYS 105 does NOT fulfill the Core Scientific Inquiry requirement. Annually, upon sufficient demand.

Equivalent(s): PHYS 104

Restriction(s):

Must be in the following Major(s): Physics

PHYS 106 Conceptual Physics **credit(s): 3**

The basic principles of physics are covered in a descriptive (non-mathematical) manner. Designed for students not majoring in the natural sciences or those needing a very basic background in physics. Offered upon sufficient demand.

Equivalent(s): PHYS 100

PHYS 106L Conceptual Physics Lab **credit(s): 1**

Taken concurrently with PHYS 106. Two hours of laboratory. Offered upon sufficient demand.

Equivalent(s): PHYS 100L

Corequisite(s): PHYS 106

PHYS 107 Conceptual Physics II **credit(s): 3**

The basic principles of physics are covered in a descriptive (non-mathematical) manner. Designed for students not majoring in the natural sciences or those needing a very basic background in physics. Offered upon sufficient demand.

PHYS 107L Conceptual Physics Lab II **credit(s): 1**

Taken concurrently with PHYS 107. Two hours of laboratory. Offered upon sufficient demand.

Corequisite(s): PHYS 107

PHYS 111 General Physics I **credit(s): 4**

Algebra-based introductory physics. Mechanics, including Newton's laws, conservation laws, fluids, oscillations, and waves. Five hours of lecture with experimental demonstrations and problems. Not accepted as a pre-requisite for any advanced work. Fall.

Equivalent(s): PHYS 101

PHYS 111L General Physics I Lab **credit(s): 1**

Taken concurrently with or after the lecture course PHYS 111. Three hours of laboratory. Fall.

Equivalent(s): PHYS 101L

Prerequisite(s): PHYS 111 (or concurrent)

PHYS 112 General Physics II **credit(s): 4**

Algebra-based introductory physics. Thermodynamics, electricity and magnetism, and optics. Five hours of lecture with experimental demonstrations and problems. Not accepted as pre-requisite for any advanced work. Spring.

Equivalent(s): PHYS 102

Prerequisite(s): PHYS 111 or PHYS 121

PHYS 112L General Physics II Lab **credit(s): 1**

Taken concurrently with or after the lecture course PHYS 112. Three hours of laboratory. Spring.

Equivalent(s): PHYS 102L

Prerequisite(s): (PHYS 111L or PHYS 121L) and PHYS 112 (or concurrent)

PHYS 121 Physics I **credit(s): 4**

Calculus-based introductory physics. Mechanics, including Newton's laws, conservation laws, fluids, oscillations, and waves. Five hours of lecture with experimental demonstrations and problems. Fall and Spring.

Equivalent(s): PHYS 103

Prerequisite(s): MATH 157

PHYS 121L Physics I La **credit(s): 1**

Taken concurrently with or after the lecture course PHYS 121. Three hours of laboratory. Fall and Spring.

Equivalent(s): PHYS 103L

Prerequisite(s): PHYS 121 (or concurrent)

PHYS 122 Physics II **credit(s): 4**

Calculus-based introductory physics. Thermodynamics, electricity and magnetism, and optics. Five hours of lecture with experimental demonstrations and problems. MATH 258 Calculus & Analytic Geometry II, may be taken prior to or concurrently. Fall and Spring.

Equivalent(s): PHYS 204

Prerequisite(s): MATH 258 and PHYS 121

PHYS 122L Physics II Lab **credit(s): 1**

Taken concurrently with or after the lecture course PHYS 122. Three hours of laboratory. Fall and Spring.

Equivalent(s): PHYS 204L

Prerequisite(s): PHYS 121L and PHYS 122 (or concurrent)

PHYS 180 Physics Skills Seminar **credit(s): 1**
Development of tools useful for success in the study of physics, as well as an understanding of the discipline and the resources available to students at Gonzaga. Fall, odd years.

PHYS 185 Introductory Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topics to be determined by instructor.

PHYS 190 Introductory Directed Study **credit(s): 1-4**

Course repeatable for 6 credit.

Directed study in approved topics. Requires completed form and departmental approval.

Cannot be registered for via ZagWeb.

PHYS 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

PHYS 201 Mathematical Methods **credit(s): 3**

Survey of mathematical techniques used in upper-division physics courses. Fall.

Equivalent(s): PHYS 300

Prerequisite(s): PHYS 122

PHYS 222 Electronics **credit(s): 2**

This course is primarily a laboratory in which students learn basic concepts of linear electronics and laboratory techniques through passive components, DC and AC applications, use of test equipment, operational amplifiers, basic transistor circuits, and more. Two hours of lecture and one three-hour laboratory exercise per week. Fall, even years.

Equivalent(s): PHYS 210

Prerequisite(s): PHYS 122L

PHYS 224 Modern Physics **credit(s): 3**

Special relativity, development, and an introduction to quantum mechanics and other selected topics. Spring.

Equivalent(s): PHYS 205

Prerequisite(s): PHYS 122

PHYS 280 Physics Pathways Seminar **credit(s): 1**

Development of tools useful for success in the practice of physics, as well as an understanding of the discipline and the opportunities available to students during and after their time at Gonzaga. Fall, even years.

PHYS 285 Intermediate Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topics to be determined by instructor.

PHYS 290 Intermediate Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

Directed study in approved topics. Requires completed form and departmental approval.

Cannot be registered for via ZagWeb.

PHYS 321 Classical Mechanics **credit(s): 3**

Particle and rigid body statics and dynamics in a rigorous vectorial calculus treatment. A fundamental introduction to theoretical physics. Spring, even years.

Equivalent(s): PHYS 301

Prerequisite(s): PHYS 122 and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 322 Electricity and Magnetism **credit(s): 3**

Electrical and magnetic phenomena leading to a development of Maxwell's equations and electromagnetic field theory. Fall, even years.

Equivalent(s): PHYS 306

Prerequisite(s): PHYS 122 and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 323 Statistical Mechanics **credit(s): 3**

Study of thermal properties from microscopic and statistical viewpoints. Topics include: probability distributions, entropy, density of states, black body radiation. Spring, odd years.

Fulfills the following degree requirement(s): MENG - Tech Elective

Equivalent(s): PHYS 450

Prerequisite(s): PHYS 122

PHYS 324 Quantum Mechanics **credit(s): 3**

Development of techniques to represent and solve the Schrödinger equation for various potential energy functions and measurements in quantum mechanical systems. Fall, odd years.

Equivalent(s): PHYS 464

Prerequisite(s): (PHYS 105 or PHYS 224) and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 325 Computational Physics **credit(s): 2**

An introduction to computational physics. Students will be introduced to many of the basic ideas, algorithms, and tools used by physicists to solve problems. Techniques learned here will be used in most upper-level courses. Spring, odd years.

Equivalent(s): PHYS 208

Prerequisite(s): MATH 258 and PHYS 121

PHYS 385 Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topics to be determined by instructor.

PHYS 390 Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

Directed study in approved topics. Requires completed form and departmental approval.

Cannot be registered for via ZagWeb.

PHYS 395 Research Assistantship **credit(s): 0**

Undergraduate research assistantships are opportunities for student to earn a stipend while performing independent research in the laboratory of a Physics faculty member.

PHYS 424 Advanced Quantum Mechanics **credit(s): 3**

Extension of techniques and concepts of Quantum Mechanics to systems with greater complexity, such as the inclusion of relativistic effects and the behavior of identical particles.

Spring, even years.

Prerequisite(s): PHYS 324

PHYS 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: “Imagining the possible: What is our role in the world?” by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students’ future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

PHYS 441 Advanced Laboratory I **credit(s): 2**

Development of experimental and analytical techniques. Introduction to scientific writing and communication. Fall, odd years.

Equivalent(s): PHYS 217

Prerequisite(s): PHYS 122L

PHYS 442 Advanced Laboratory II **credit(s): 2**

Further development of experimental and analytical techniques. Refinement of scientific writing and communication. Spring, even years.

Equivalent(s): PHYS 310

Prerequisite(s): PHYS 441

PHYS 451 Fields, Oscillations, and Relativity **credit(s): 3**

Study of advanced classical and relativistic systems, including orbital mechanics, coupled oscillations, electromagnetic waves, and relativistic transformations. Spring, odd years.

Prerequisite(s): PHYS 224 and PHYS 321 and PHYS 322

PHYS 452 Optics **credit(s): 3**

Treatment of optical phenomena using the three major models for light: rays, waves, and photons. Spring, even years.

Fulfills the following degree requirement(s): MENG - Tech Elective

Equivalent(s): PHYS 307

Prerequisite(s): PHYS 122 and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 453 Solid State Physics **credit(s): 3**

Study of solid materials using both macroscopic and microscopic quantum models from physics. Topics may include early models of solids, mechanical and thermal properties of materials, elasticity, chemical bonding, metals, crystal structure, phonons and vibrational modes, electric

conductivity, band gap theory and semiconductors, transistors, magnetic properties of materials, and other selected solid state topics. Fall, odd years.

Fulfills the following degree requirement(s): MENG - Tech Elective

Equivalent(s): PHYS 468

Prerequisite(s): (PHYS 105 or PHYS 224) and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 454 Nuclear and Particle Physics **credit(s): 3**

Study of experimental and theoretical aspects of nuclear interactions as they apply to nuclear structures and elementary particle characteristics. Fall, odd years.

Equivalent(s): PHYS 409

Prerequisite(s): PHYS 244

PHYS 455 Cosmology and Astrophysics **credit(s): 3**

Study of the global evolution of the universe, including the expansion rate of the universe, big bang nucleosynthesis, the cosmic microwave background radiation, inflation, relativity, and other selected astrophysics topics. Spring, odd years.

Equivalent(s): PHYS 415

Prerequisite(s): PHYS 122 and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201)

PHYS 456 Biophysical Systems and Modeling **credit(s): 3**

Study of biological systems using first principles, tools, and models from physics. Topics may include diffusion, membrane potentials, models of neural dynamics, information processing in biological systems, and other selected biophysics topics. Fall, even years.

Fulfills the following degree requirement(s): MENG - Tech Elective

Equivalent(s): PHYS 412

Prerequisite(s): PHYS 122 and ((MATH 259 and MATH 260) or PHYS 300 or PHYS 201) and (CPSC 121 or ENSC 201)

PHYS 485 Advanced Special Topics **credit(s): 1-4**

Course repeatable for 12 credit.

Topics to be determined by instructor.

PHYS 490 Advanced Directed Study **credit(s): 1-4**

Course repeatable for 12 credit.

Directed study in approved topics. Requires completed form and departmental approval.

Cannot be registered for via ZAGWEB.

PHYS 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Credit recognition of an internship or research experience, arranged by the student, directly related to the student's Physics Major and/or career plans, where said experience helps the student increase and develop practical physics knowledge and skills. Prior to registration, the student must secure participation in an internship or research experience, identify a faculty supervisor, complete and submit the Physics Department Internship Application form, and receive permission from the Physics Department.

PHYS 499 Senior Project **credit(s): 0-3**

May be undertaken by B.S. Physics Majors in their senior year. Permission from Physics Department required.

Political Science

Chairperson: Joe Gardner

Professors: L. Brunell, B. Garvin, M. Leiserson (Emeritus), C. Stavrianos

Associate Professors: J. Gardner, S. Taninchev

Assistant Professors: J. Abraham, S. James, B. Zhao

Political science courses invite students to examine political thought, action, systems, and power. A major or minor in political science provides an enduring political education for citizens, a solid basis for graduate work, a fine background for the study of law, the teaching or practice of politics, and political change.

Our faculty believes that public-spirited participation in civic affairs serves the department's mission and the mission of Gonzaga University. So, we encourage majors to do politics in our public affairs internships and other forms of experiential learning as well as in pursuing their own political interests and passions. In the fall or spring semester of their senior year, all political science majors take our Senior Seminar, POLS 498. This capstone experience allows our students to integrate and apply what they have learned in as Political Science students to contemporary politics.

The faculty also provide guidance and advice about applying to graduate school or law school and pursuing careers in politics, public administration or international affairs.

B.A. Major in Political Science: 36 credits

Lower Division	15 credits
POLS 101 Intro to American Politics	3 credits
POLS 103 Intro to Comparative Politics	3 credits
POLS 104 Intro to International Relations	3 credits
POLS 201 Political Thought & Praxis	3 credits
POLS 202 How to Study Politics	3 credits
POLS 201 and POLS 202 are restricted to POLS majors and minors	
Upper Division	21 credits
Upper division courses require Junior or Senior standing or instructor permission	
POLS 498 Senior Seminar	3 credits
Select one of the following focus options:	
American Politics	18 credits
POLS 301-327, 332, 346, POLS 484 American Politics	9 credits
POLS 317, 330-346; POLS 486 Political Thought	3 credits
POLS 328-329, 343, 350-380, 487-488	3 credits

Comparative Politics or International Relations POLS 301-497 (Elective)	3 credits
Comparative Politics	18 credits
POLS 301-327, 332, 346, 484 (American Politics)	3 credits
POLS 317, 330-346, 486 (Political thought)	3 credit
POLS 328-329, 352-357, 360, 364-365, 368, 372, 488 (Comparative Politics)	9 credits
POLS 301-497 (Elective)	3 credits
International Relations	18 credits
POLS 301-327, 332, 346, 484 (American Politics)	3 credits
POLS 317, 330-346, 486 (Political Thought)	3 credits
POLS 343, 350-351, 359, 361, 363, 366-367, 369-371, 373-380, 487 (International relations)	9 credits
POLS 301-497 (Elective)	3 credits

Minor in Political Science: 18 Credits

Lower Division

POLS 101 American Politics	3 credits
<i>One of the following two courses:</i>	3 credits
POLS 103 Intro to Comparative Politics	
POLS 104 Intro to International Relations	

Electives

POLS 201, 202, or 301-497	12 credits
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Courses:

POLS 101 Introduction to American Politics	credit(s): 3
The American Constitution: the evolution of democracy and the structure of the national government. Congress: the Presidency and the courts. Political parties and interest groups. Public policy in domestic and foreign affairs. How to think about politics. Fall and Spring.	
Fulfills the following degree requirement(s): Core: Social/Behavioral Sci	
POLS 102 Political Thought and Action	credit(s): 3
This course is designed to be an introduction to the political science subfield of political thought. The course will cover central texts and problems of political theory with an emphasis on using theoretical insights to guide action. Themes may include freedom, justice, equality, democracy, and authority, though the emphases will vary from semester to semester. Fall and Spring.	
Fulfills the following degree requirement(s): Core: Social/Behavioral Sci	
POLS 103 Introduction to Comparative Politics	credit(s): 3
Comparison of key political institutions, political attitudes, patterns of interaction, and long-term quarrels in selected countries from Europe, Middle East, Asia, Africa and Latin America. How legislatures, executives, and political parties work and the influence of culture, social	

structure, ideology, and nationalism. Fall.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

POLS 104 Introduction International Relations **credit(s): 3**

This course is designed to be an introduction to the political science subfield of international relations. The course will cover the major theoretical perspectives in international relations, security and economic relations between states, and global challenges that states face from non-state actors and the environment. Fall and Spring.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

POLS 190 Directed Study **credit(s): 1-4**

Course repeatable for 9 credit.

Topic to be determined by instructor.

POLS 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process. Spring.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

POLS 201 Political Thought and Praxis **credit(s): 3**

This course serves as an introduction to the field of political theory for students of political science. The concepts considered include democracy, equality, freedom, and justice with examination of additional fundamental concepts informed by instructor preference and contemporary political events. Students in this course will acquire the knowledge and skills necessary to evaluate theory and, importantly, apply it to political practice (praxis). Fall Semester.

Restriction(s):

Must be POLS major or minor

POLS 202 How to Study Politics **credit(s): 3**

This course introduces Political Science majors to the research methods used in the discipline of Political Science. In addition to developing fundamental research skills for Political Science majors, it teaches students how to fact-check and evaluate sources and to think critically about information gleaned from a variety of media.

Restriction(s):

Must be POLS major or minor

POLS 301 Politics of Food **credit(s): 3**

Examines the nature and origins of local, state, and federal policies impacting the U.S. food system. Major topics include food safety, nutrition guidelines, the problems of hunger and obesity. Significant attention is paid to the interplay of ordinary citizens, corporations, and local, state and federal governments and the role of each in the policy making process. Spring, alternate years. Offered occasionally.

POLS 303 Constitutional Law, Civil Liberty, and Rights credit(s): 3

A case-based examination of Supreme Court decisions treating aspects of the Bill of Rights and the Fourteenth Amendment. These decisions cover topics such as freedom of speech, freedom of the press, religious freedoms, the right to privacy, and questions of discrimination in its many forms, including racial, sexual, and voting rights. Spring.

Fulfills the following degree requirement(s): BU - LPP conc Req, CRIM - Elective, CRIM - Law, CRIM - Non-CRIM, CRIM - Political Science

Equivalent(s): WGST 343

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 306 Congress and the Presidency credit(s): 3

The Congress, its rules and procedures, committee and party leadership, and the influence of Congress on national policy. The Presidential office, its constitutional powers and its evolution over the years. The "modern presidency" since Franklin Roosevelt. Conflict and co-operation between the Congress and the President. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 309 Political Parties and Election credit(s): 3

How our nation's political parties are organized inside and outside government. Whether they are weak or strong. Occasional efforts to reform parties. Their role in elections. Other influences on presidential and congressional elections. The conduct of election campaigns. How voters make up their minds. Explaining election outcomes. Fall, even years.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 310 Native American Govt and Politic credit(s): 3

This course will see Native American government and politics in a milieu of intergovernmental relations, of community to community connections, or the lack of such relationships. Taking social justice as importantly about relationships, and doing so in respect of governing, this course will to study how (or how not) federal, state, and municipal governments interact with Native American governments. Spring, even years.

POLS 311 State and Local Government credit(s): 3

Surveys state and local government: intergovernmental relations, finance, state sovereignty, shifts in federalism and social policy, politics of urban and rural regions. State election systems may be studied for their significant influence over national elections. Offered occasionally.

Fulfills the following degree requirement(s): BU - LPP conc Req, CRIM - Elective, CRIM - Political Science

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 312 Urban Politics credit(s): 3

Explores city life and all the elements that define it, the problems and prospects of the urban policy that surround, influence, constrain and color city life. When cross listed with Women's and Gender Studies, special attention is paid to the role of women as citizens and activists in

the urban context. Offered occasionally.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Political Science

Equivalent(s): WGST 341C

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 317 Ecological Thought and Politics **credit(s): 3**

This Service Learning course focuses on the writings of seminal figures in American ecological thought, such as John Muir, Gifford Pinchot, and Aldo Leopold. Examines the history and politics of land use and wilderness planning. Class will go on field trips in partnership with the United States Forest Service (USFS) and local environmental groups to learn first-hand about the politics of local land use. Offered occasionally.

Equivalent(s): ENVS 321

POLS 319 American Foreign Policy **credit(s): 3**

Evolution of American foreign policy, with emphasis on contemporary issues, national interests, interrelationship with domestic politics, and the decision-making process. Evaluation of Nationalist, Revisionist, and Realist views of foreign policy. How foreign policy may do justice. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 321 Politics and Public Admin **credit(s): 3**

The way American public bureaucracy operates. Fall and Spring.

Fulfills the following degree requirement(s): BU - LPP conc Req

POLS 322 Gender, Sexuality, and Politics **credit(s): 3**

Investigates the roles of gender and sexuality in American politics through examination of the wide array of goals, strategies, and tactics embraced by women and LGBTQ+ political movements as well as the agendas and actions of women and LGBTQ+ governmental actors. Special attention is paid to recognizing and understanding gender and sexuality-based distinctions in political participation, opinion formation, electoral success and representation. Spring semesters.

Fulfills the following degree requirement(s): SOSJ - Block C, Women's & Gender Studies

Equivalent(s): SOSJ 342, WGST 340

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 323 Constitutional Law: Institutional Powers **credit(s): 3**

A case-based examination of Supreme Court decisions treating the structure and distribution of power among government institutions. These decisions treat the powers of the national government (the legislative, executive, and judicial branches) and issues arising out of federalism: the powers of the states and the interplay between state and national institutions. Fall.

Fulfills the following degree requirement(s): BU - LPP conc Req, CRIM - Elective, CRIM - Law, CRIM - Non-CRIM, CRIM - Political Science

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 324 Grass Roots Politics credit(s): 3

Examination of past town-meetings and recent theory and practice aimed at increasing direct use of political power by ordinary American citizens. Emphasis on the possibility of a new model of democratic government. Offered occasionally.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 325 Selected Topics: American Politics credit(s): 3

Course repeatable for 9 credit.

The study of selected topics in American politics.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 326 Race and Ethnicity Politics credit(s): 3

Examines the conditions facing selected racial and ethnic groups in the U.S., with African Americans being the primary case for analysis. Topics include the social construction of race and ethnicity, the wide range of political strategies and tactics employed by racial and ethnic groups in pursuit of equality, and U.S. immigration policy. Fall, even years.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): SOSJ 343, WGST 345C

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 327 American Social Policy credit(s): 3

Examines the origins, patterns, reforms, and criticisms of American social policy, the ties between knowledge and social policy; the impact of education, health care, and welfare policies on women, children, different racial and ethnic groups, and the middle class. Reviews normative claims for the proper role of the state and capitalism. Compares other western, capitalist societies and their policy regimes. Offered occasionally.

Fulfills the following degree requirement(s): BU - LPP conc Req

Equivalent(s): WGST 344

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 328 Politics of the Pacific Northwest credit(s): 3

State and society in the Pacific Northwest: government, parties, reform movements, regionalism, and social forces in the U.S. Pacific Northwest, and British Columbia and Alberta. Regional issues such as taxation, health care, urbanization, land use, education, the environment, and resource-based economics are addressed in a comparative Canadian-U.S. context. Offered occasionally.

Equivalent(s): ENVS 380

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 329 North American Environmental Policies credit(s): 3

Study of local, regional, and international environmental policy, its challenges for not only administration and understanding, but also citizenship and accountability. Topics include water,

ecosystem management and sustainability in the U.S., Canada and Mexico. Offered occasionally.

Equivalent(s): ENVS 329

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 330 Ruling Well: Plato-Machiavelli credit(s): 3

Great political theorists have criticized rulers and proposed alternative ways of ruling. In short, they have tried to change the world. This course examines the efforts of Plato, Aristotle, Augustine, Aquinas and Machiavelli to teach rulers how to do their job well. Fall, odd years.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 331 Modern Political Thought credit(s): 3

The rise and development of British and French liberalism from the 17th through the 19th centuries. How freedom became the central issue in political thought, traced through consideration of Hobbes, Locke, Montesquieu, Rousseau, Paine, and Mill – plus a nod to Burke, a conservative critic of these developments. Consideration of the influence of liberalism on America. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 332 American Political Thought: Founding Era credit(s): 3

Political thought of the Puritan founders of Massachusetts. The American Revolution and the Constitution. Federalists and Anti-Federalists. Tocqueville's Democracy in America. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 335 Marxism credit(s): 3

Foundations of Marxism-Leninism. Major writings of Marx, Engels, and Lenin. Significance of Marxism in light of the apparent collapse of world communism. Marxism as a critique of American liberalism. Fall, even years.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 336 Selected Texts In Political Thought credit(s): 3

Course repeatable for 12 credit.

Intensive look at a single writer or group of writers; designed to achieve greater understanding than is possible in a broad survey course. Offered occasionally.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 338 20th-Century Political Thought credit(s): 3

Treatment of 20th-century authors who examine the difficulties for democratic political life in contemporary mass society. Fall.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 341 Feminist Political Thought credit(s): 3

Analyzes several varieties of feminist theory to explore how conceptions of women, gender and feminism have changed and have structured women's opportunities to participate fully in politics and the economy. Central questions include: the nature of sex/gender and sex/gender difference;

what is feminism; who identifies as a feminist; and how gender identities are mediated by our class, race, and ethnic identities. Meets WGST Feminist Theory Requirement. Fall.

Equivalent(s): WGST 401

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 343 War and Peace credit(s): 3

Analyzes several political philosophers' writings about war and peace, such as Kant's Perpetual Peace; also looks into recent case studies about establishing peace in various parts of the world. Offered occasionally.

POLS 346 Tocqueville and America credit(s): 3

Close consideration of perhaps the greatest book on America politics and society. Tocqueville's trip to America. His two volume work, Democracy in America. Tocqueville as a 19th century theorist of revolution. How far America today resembles Tocqueville's description in the 1830s. What Tocqueville can teach us today about the link between political participation and freedom. Offered occasionally.

POLS 350 Survey of International Studies credit(s): 3

Contemporary global issues and background information for all courses in International Studies. Studies the wisdom of the world's main civilizations, comparative economic systems and ideas, international politics, and the potential for international integration.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 351 International Relations credit(s): 3

Theory and practice of the international political system and the behavior of the participating nations. Taught only at Gonzaga-in-Florence.

Equivalent(s): INST 342

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 352 Latin American Politics credit(s): 3

Impressive contributions and drawbacks of the caudillo or leader in Latin American history, culture, and society, in the range of contemporary forms of government-democratic, dictatorial, revolutionary. Some treatment of U.S. foreign policy. Spring.

Fulfills the following degree requirement(s): HIST - Non-History elect

Equivalent(s): INST 385

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 354 Comparative European Politics credit(s): 3

Survey of the parties, institutions, political processes, issues and policies of the major western European industrialized nations. Special focus on England, France, and Germany, but coverage

extends to the other European democracies as well. Fall, even years.

Equivalent(s): FILM 344, INST 395

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 355 Post-Soviet Russia and China

credit(s): 3

Focus on the pre-1985 Soviet political system; how Gorbachev's six-year reform program led to the unraveling of the Soviet Union; and the difficult transition to democracy and a market economy in post-Soviet Russia. Similarly, contrasts Maoist China with the uneasy mixture of economic reform and political repression coexisting in China today. Fall.

Fulfills the following degree requirement(s): INST - Europe Region content

Equivalent(s): INST 325

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 356 Area Studies in Politics

credit(s): 3-4

Course repeatable for 12 credit.

An analysis of selected foreign governments. Offered occasionally.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 357 Italian Political System

credit(s): 3

Constitutional principles and governmental agencies in Italy today. Taught only at Gonzaga-in-Florence.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 359 Global South Development

credit(s): 3

This course focuses on economic and political development in the Global South. The topics of the course include a survey of the eras of development, including colonial, Cold War, and post-colonial; conceptual approaches to economic and political development; 21st century challenges to sustaining development; and global frameworks for addressing development issues. A variety of country-based case studies will be utilized.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): INST 310, SOSJ 329

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 360 Parliamentary Government

credit(s): 3

Parliamentary or Cabinet government contrasted with the American government. Focus on disciplined parties, prime ministers, civil servants, and elected politicians, written and unwritten constitutional rules, parliamentary supremacy and rights-based politics. Usually features Canada but draws examples from Great Britain, New Zealand, India, and Australia. Spring, odd years.

Equivalent(s): INST 346

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 361 European Relations **credit(s): 3**
Offered in Paris only.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 363 Global Gender Regimes **credit(s): 3**

Compares the lives of women around the world: their public and private roles and responsibilities, positions in government, the economy, and the private sphere. Seeks to explain women's status differences in various regions and societies by looking at the influence of culture, religion, economics, and politics. Spring, even years.

Fulfills the following degree requirement(s): Women's & Gender Studies

Equivalent(s): INST 326, WGST 342

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 364 Politics of the Pacific Rim **credit(s): 3**

Focus on the role played by the East Asian capitalist development states (Japan, South Korea, Taiwan) in the accelerated economic growth of the Pacific Rim; a consideration of the Philippines or Indonesia as a representative of ASEAN; analysis of the Asian financial crisis and its impact on Hong Kong, USA, Russia, and China. Offered occasionally.

Equivalent(s): INST 389

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 365 African Politics and Development **credit(s): 3**

This is a course on the political economy of largely sub-Saharan Africa. Poverty is Africa's overriding moral, economic, and political challenge. Topics include: state-society relations, civil society, institutions, incentives – political and economic, concepts and experiences of development, violence and ruling practices, trade and investment, urban and rural issues, formal and informal economies, social movements and political parties, inequality and justice, accountability of power, capacity building and corruption. Offered occasionally.

Equivalent(s): INST 390

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 366 Perspectives on Global Issues **credit(s): 3-9**

Critical analysis of vital global issues from the different perspectives of realists, idealists, and system-transformers. Exploration of competing worldviews and value systems, weighing of evidence from differing ideological, cultural, and gender perspectives. Introduces major analytical perspectives and organizing concepts fashioned by scholars to make these issues comprehensible. Offered occasionally.

Equivalent(s): INST 401

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 367 New Europe **credit(s): 3**

Studies the "new Europe" that has emerged since 1989 as integration through the European Union deepens and widens. Explores contemporary issues that European integration and globalization have fostered in the new Europe such as the resurgence of nationalism and

extreme right-wing parties, the increased salience of local and regional identities, the need to build a supra-national European identity, increasing cultural diversity and the need to better manage immigration and migration, and Europe's place in the global economy and foreign affairs as it challenges American hegemony and seeks to continue to be a major player in world affairs. Fall, odd years.

Equivalent(s): INST 393

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 368 Tyranny to Democracy 21st Century credit(s): 3

Between 1974 and 2000 more than fifty countries in Southern Europe, Latin America, East Asia, and Eastern Europe shifted from authoritarian to democratic systems of government. This course examines the causes and nature of these democratic transitions and investigates several case studies of democratic transitions in different areas of the world; in order to understand the factors responsible for the democratic trend and to ascertain which key variables best explain completed democratic transitions and democratic consolidation. Spring.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): INST 392, SOSJ 346

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 369 The Politics of Eurasia credit(s): 3

We begin by developing our understanding of democracy and then proceed to explore the political, economic and social development of several countries of Central and Eastern Europe, Russia and Central Asia over time. What explains the various fates of the countries in this region? Political culture/history? Political agency? Proximity to "the West" and diffusion of norms? Spring, odd years.

Fulfills the following degree requirement(s): INST - Asian Region content

Equivalent(s): INST 355

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 371 International Law credit(s): 3

International law with an international relations focus. How and why international treaties and other sources of international law are created; actors who create, interpret, and enforce them. Structures for increasing compliance and their effectiveness. Variety of major international treaties and laws: war, sea, trade, and human rights. Spring, even years.

Equivalent(s): INST 345

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 372 Middle East Politics credit(s): 3

Shows the Middle East is more than a region fraught with violence, ethnic hatred and the struggle for control of oil by examining the modern Middle East's history and context, a diverse set of country case studies, and current issues including the role of women, Islamic fundamentalism, terrorism, and peace in Israel-Palestine. Fall.

POLS 373 Arab-Israeli Conflict **credit(s): 3**

Why is there an Arab-Israeli conflict? The question is much-discussed but not very often answered. Comprehensive effort to understand that question as well as the intense political debates surrounding it. Interdisciplinary, touching on the historical, political, and sociological origins and trajectory of the conflict. Spring.

Fulfills the following degree requirement(s): INST - Mid East Region content, RELI - Contemporary Issues

POLS 376 International Organizations **credit(s): 3**

Examines why intergovernmental organizations exist and whether they make a difference in solving global problems. Questions to be addressed include: Where does their power come from? Why are some designed differently than others? Why do countries use international organizations to achieve their goals? Are they effective? Practical knowledge about the major ones such as the U.N., the European Union, and the World Trade Organization. Their successes and failures about specific global problems such as conflict, human rights and development. Spring, odd years.

Fulfills the following degree requirement(s): INST - Asian Region content

Equivalent(s): INST 344

POLS 377 International Treaties **credit(s): 3**

Examines International Treaties: why they exist, origins of their power, different designs, uses made of them, effectiveness. Covers such examples as NATO, NAFTA, Kyoto Protocol. Their successes and failures about specific problems. Offered occasionally.

Equivalent(s): INST 347

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 378 Climate Change Science and Politics **credit(s): 3**

This course is an in-depth examination of climate change science and politics. It examines the science behind climate models, current and predicted environmental effects of a changing climate, policies, as well as the basic definitions and concepts citizens need to understand climate change and its related political issues. In the course we will examine how scientific and political thinking on climate change has evolved.

Equivalent(s): ENVS 324

POLS 379 Model United Nations **credit(s): 3**

Course repeatable for 9 credit.

Course repeatable for 9 credits. (only 6 credits can apply to POLS major)

This course is designed to enhance the student delegates' achievement of the learning objectives through participation in simulations of various committees and other bodies of the United Nations. Through brief lectures, individual research and writing projects, in-class simulations, and participation in the National Model United Nations conference, students will gain an enhanced knowledge of global issues, a deeper understanding of what motivates state action, and an understanding of which factors facilitate or hinder cooperation. Students will also gain valuable writing, speaking, negotiating, and diplomatic skills. Enrollment by instructor permission only. Spring.

Equivalent(s): INST 370

- POLS 380 Special Topic - International Relation** **credit(s): 3**
 Course repeatable for 9 credit.
 Political International Relations topics covered.
Fulfills the following degree requirement(s): POLS - International Relations
- POLS 390 Directed Study** **credit(s): 1-3**
 Course repeatable for 9 credit.
 Topic to be determined by instructor.
- POLS 395 Topics in Political Science** **credit(s): 3**
 Course repeatable for 12 credit.
 Selected questions in the discipline.
- POLS 396 Service Learning Public Affair** **credit(s): 1**
 Field work by arrangement with a community organization. Must be taken together with a designated service learning course. Requires a comprehensive internship report. Usually limited to Junior and Senior class students but, in special cases, first and second year students may be granted authorization by the Department Chair.
- POLS 432 Core Integration Seminar** **credit(s): 3**
 The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world. Fall and Spring.
Fulfills the following degree requirement(s): Core: Core Integration Seminar
Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion
- POLS 484 Seminar in American Politics** **credit(s): 3**
 Selected topics determined by Instructor.
Fulfills the following degree requirement(s): POLS - American Politics
Restriction(s):
 Must be the following Class(es): Junior, Senior, Sophomore
- POLS 486 Seminar in Political Thought** **credit(s): 3**
 Selected topics determined by Instructor.
Restriction(s):
 Must be the following Class(es): Junior, Senior, Sophomore
- POLS 487 Sem in International Relations** **credit(s): 3**
 Course repeatable for 8 credit.
 Selected topics determined by Instructor.
Restriction(s):
 Must be the following Class(es): Junior, Senior, Sophomore

POLS 488 Seminar: Comparative Politics **credit(s): 3**

Course repeatable for 9 credit.

Selected topics determined by Instructor.

Fulfills the following degree requirement(s): POLS - Comparative Politics

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

POLS 490 Directed Readings **credit(s): 1-3**

Course repeatable for 9 credit.

Credit by arrangement for directed reading and reports on selected topics. Requires completion of a form, Department Chair permission, and cannot be registered for via ZAGWEB.

POLS 492 Independent Research or Study **credit(s): 1-4**

Course repeatable for 9 credit.

Course repeatable for 9 credits.

Credit by arrangement for research or study. Requires completion of a form, Department Chair permission, and cannot be registered for via Zagweb.

POLS 497 Political Science Internship **credit(s): 0-9**

Course repeatable for 9 credit.

The Political Science Department grants academic credit for internships that enable students to learn practical lessons about politics. Interns may work in a variety of governmental and non-governmental settings – possibilities include but are not limited to executive agencies, legislative staffs, campaign teams, and non-profit public interest groups. A POLS professor must approve the internship and will ask for and review appropriate written work that the internship inspires. Credit granted will vary with the hours demanded of the intern. The amount of written work the intern does will also vary with the hours worked.

POLS 498 Senior Seminar **credit(s): 3**

In this capstone course students integrate concepts and ideas from their coursework in political science subfields and apply knowledge of political science to one or more contemporary political issues. Topics covered in the class will vary by instructor.

Restriction(s):

Must be in the following Major(s): Political Science

Prerequisite(s): (POLS 301-327, 332, 346, 317, 330-346, 486, 1 course) and (POLS 328-329, 343, 350-380, 487-488 1 course)

Psychology

Chairperson: Sarah Arpin

Professors: M. Bartlett, A. Cano, M. Kretchmar-Hendricks, A.M. Medina, V. Norasakkunkit, N. Worsham, L. Wurm

Associate Professors: S. Arpin, M. Nelson, P. Romanowich, A. Stivers

Assistant Professors: D. Addleman, M.K. Koch, T. McCulloh, M. Sarrett

Senior Lecturer: K. Measor

The department offers two majors and one minor:

Bachelor of Arts, Psychology major (optional research concentration)

Minor in Psychology

Bachelor of Science, Neuroscience major

The Department of Psychology offers courses that focus on the scientific study of human and animal behavior and decision-making. The department offers a Bachelor of Arts in Psychology and a Bachelor of Science in Neuroscience.

General Psychology (PSYC 101), Statistics for Psychology (PSYC 202) and Scientific Principles of Psychology (PSYC 206) are pre-requisites for most upper division courses. These courses provide students with an initial understanding and appreciation of the scientific method in psychology. General Psychology, Statistics, and Scientific Principles of Psychology constitute the lower division requirements for both the major and the minor. Students must earn a B- or better in Scientific Principles of Psychology to complete the major in Psychology.

After taking the three lower division requirements, Psychology minors are required to complete 12 credits of upper-division psychology coursework. Majors are required to complete 24 credits of upper-division coursework, 18 of which must be selected from particular cluster areas as described below. As will be discussed below, students declaring the research concentration are required take 27 credits of upper-division coursework, 18 of which must be selected from cluster areas and 9 of which are specified courses for the concentration. Finally, majors must either pass a comprehensive examination (PSYC 499) or complete independent research under faculty supervision, the results of which must be presented at a regional or national conference (PSYC 498). Students usually complete the comprehensive exam or independent research during their final year-once they have completed the majority of their coursework.

Research Concentration:

The Research Concentration is a special pathway within the Psychology major. This concentration is for students planning to advance onto doctoral level graduate degrees (Ph.D.) upon completing their undergraduate degree at Gonzaga. Students who declare this concentration are required to receive an A- in Scientific Principles of Psychology (PSYC 206). For

upper division classes, students in the concentration will take Advanced Statistics in Psychology (PSYC 450) and a two-semester advanced methods course: 1) Advanced Research Designs (PSYC 488), to be taken spring of junior year; 2) Advanced Research Analyses (PSYC 489), to be taken fall of senior year. Students in the concentration must present their research at a local, regional, or national conference. Finally, students in the concentration will register for the Comprehensive Alternate (PSYC 498) during the semester in which they are presenting their research at a conference.

B.A. Major in Psychology: 33 Credits

Lower Division (9 credits)

PSYC 101 General Psychology	3 credits
PSYC 202 Statistics for Psychology	3 credits
PSYC 206 Scientific Principles of Psychology	3 credits

Upper Division (minimum 24 credits)

Biological Psychology Cluster: 3 credits

PSYC 300 Biological Psychology	
PSYC 305 Sensation and Perception	

Learning and Cognition Cluster: 3 credits

PSYC 310 Cognition	
PSYC 315 Learning	

Social and Personality Cluster: 6 credits

PSYC 318 Cultural Psychology	
PSYC 335 Social Psychology	
PSYC 340 Personality	

Developmental Psychology Cluster: 3 credits

PSYC 345 Child Psychology	
PSYC 350 Adolescent Psychology	
PSYC 352 Emerging Adulthood	
PSYC 355 Psychology of Aging	
PSYC 357 Lifespan Development	

Clinical Health Cluster 3 credits

PSYC 364 Abnormal Child Psychology	
PSYC 390 Psychopathology	
PSYC 395 Clinical Neuropsychology	
PSYC 396 Seminar: Health/Pediatric Psychology	
PSYC 399 Seminar: Clinical/Counseling Psych	

Upper Division Electives PSYC 300-497* (One course must be 400-level) 6 credits

One of the following two courses: 0 credits

PSYC 498 Comprehensive Alternative	
PSYC 499 Comprehensive	

B.A. Major in Psychology with Research Concentration: 36 credits

Lower Division (9 credits)

PSYC 101 General Psychology	3 credits
PSYC 202 Statistics for Psychology	3 credits
PSYC 206 Scientific Principles of Psychology	3 credits

Upper Division (minimum 27 credits)

Biological Psychology Cluster: 3 credits

PSYC 300 Biological Psychology	
PSYC 305 Sensation and Perception	

Learning and Cognition Cluster: 3 credits

PSYC 310 Cognition	
PSYC 315 Learning	

Social and Personality Cluster: 6 credits

PSYC 318 Cultural Psychology	
PSYC 335 Social Psychology	
PSYC 340 Personality	

Developmental Psychology Cluster: 3 credits

PSYC 345 Child Psychology	
PSYC 350 Adolescent Psychology	
PSYC 352 Emerging Adulthood	
PSYC 355 Psychology of Aging	
PSYC 357 Lifespan Development	

Clinical Health Cluster: 3 credits

PSYC 364 Abnormal Child Psychology	
PSYC 390 Psychopathology	
PSYC 395 Clinical Neuropsychology	
PSYC 396 Health/Pediatric Psychology	
PSYC 399 Seminar: Clinical/Counseling Psych	

Upper Division Requirements Specific to Research Concentration 9 credits

PSYC 450 Advanced Statistics in Psychology	3 credits
PSYC 488 Advanced Research Designs	3 credits
PSYC 489 Advance Research Analysis	3 credits
PSYC 498 Comprehensive Alternate	0 credits

Minor in Psychology: 21 Credits

Lower Division

PSYC 101 General Psychology	3 credits
PSYC 202 Statistics for Psychology	3 credits
PSYC 206 Scientific Principles of Psychology	3 credits

Upper Division

PSYC 300-497*	12 credits
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*Majors and minors may take either PSYC 460 or PSYC 462 (*but not both*) to fulfill upper-division major/minor requirements.

Courses:

PSYC 101 General Psychology credit(s): 3

An overview of contemporary psychology which introduces the student to the following areas: human development, sensation and perception, motivation, learning, emotion, psychological measurement, biological basis of behavior, experimental psychology, intelligence, abnormal behavior, and personality. Format consists of lectures and discussions. Fall and Spring;

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

PSYC 193 First Year Seminar: credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

PSYC 202 Statistics for Psychology credit(s): 3

An introduction to the essential statistical methods employed in psychological research. Fall and Spring

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101

PSYC 206 Scientific Principles of Psychology credit(s): 3

This course introduces the fundamental methods used in psychological research. Students have an opportunity through assignments and in-class exercises to practice their understanding of the scientific principles guiding psychology. Majors must earn a grade of B- or better (course may be repeated). Research concentration students must earn an A- or better. Fall and Spring. Students must take PSYC 202 to meet the Statistics pre-requisite.

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PSYC 101 and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 281 Special Topics credit(s): 3

Course repeatable for 6 credit.

Topics to be determined by faculty.

Prerequisite(s): PSYC 101

PSYC 300 Biological Psychology credit(s): 3

This course will introduce students to the biological structures and processes that are involved in psychological behavior. Students will learn about the cells, anatomy, and development of the human nervous system, and about the biological processes related to specific behaviors

including perception, movement, emotion, learning, memory, and cognition.

Fulfills the following degree requirement(s): PSYC - Biological

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 305 Sensation and Perception

credit(s): 3

Examines the transduction of sensory information, its processing and organization by the human nervous system, and how these processes result in perceptual experiences. Emphasis on vision and hearing.

Fulfills the following degree requirement(s): PSYC - Biological

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 310 Cognition

credit(s): 3

An exploration of the psychophysics and neurophysiology of human cognition. Topics include perception, attention, memory, language, reasoning, decision making, and the representation of knowledge.

Fulfills the following degree requirement(s): BU - Marketing conc Req, PSYC - Learning & Cognition

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 315 Learning

credit(s): 3

Advanced survey of concepts and methods relevant to the scientific analysis of learning.

Fulfills the following degree requirement(s): PSYC - Learning & Cognition

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101

PSYC 318 Cultural Psychology

credit(s): 3

Studies how cultural systems and mind mutually and dynamically influence each other. Cultural influences on cognition, perception, emotion, motivation, moral reasoning, and the constitution of well-being/psychopathology discussed with a view towards understanding divergent mentalities. PSYC 335 Social Psychology recommended as a pre-requisite, but not required.

Fulfills the following degree requirement(s): PSYC - Social & Personality

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 320 Seminar:Psychophysiology

credit(s): 3

Psychophysiology is a branch of psychology that uses physiological measures, such as skin conductance and heart rate, to study psychological processes, such as selective attention and

emotion. In this seminar you will learn to record and psychologically interpret common psychophysiological measures including skin conductance, muscle activity, cardiovascular activity, eye movements, and cortical brain activity.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 330 Emotion

credit(s): 3

This seminar is designed to provide undergraduates with a broad foundation in current theory and research related to human emotion. Students become familiar with classic theories, current issues, methodologies and debates characterizing the study of emotion. Both intrapersonal and interpersonal dimensions of emotion are addressed. The seminar prepares students for graduate level work in the area of psychology and as such, it requires a high level of preparation for and participation during each class meeting.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 334 Comparative Psychology

credit(s): 3

Students will study the behavior of a variety of species and how their behavior relates to that of human beings.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 335 Social Psychology

credit(s): 3

An investigation into the impact that individuals, groups, and social structure have on individual decision-making and behavior. Fall and Spring;

Fulfills the following degree requirement(s): BU - Marketing conc Req, PSYC - Social & Personality

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 340 Personality

credit(s): 3

A survey and critique of major theories of personality. Fall and Spring.

Fulfills the following degree requirement(s): PSYC - Social & Personality

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 345 Child Psychology**credit(s): 3**

The essentials of child psychology, representing various schools of thought based upon research on the development of children from conception to preadolescence. May include a service-learning component.

Fulfills the following degree requirement(s): PSYC - Developmental Psych

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (EDSE 320 or HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 350 Adolescent Psychology**credit(s): 3**

A survey of psychological research and major theories regarding the life-span between puberty and the attainment of maturity. May include a service-learning component.

Fulfills the following degree requirement(s): PSYC - Developmental Psych

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (EDSE 320 or HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 352 Emerging Adulthood**credit(s): 3**

Examines psychological development during the lifespan from post-adolescence through middle age, with an emphasis on emerging adulthood.

Fulfills the following degree requirement(s): PSYC - Developmental Psych

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (EDSE 320 or HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 355 Psychology of Aging**credit(s): 3**

Explores the interaction and impact of the aging process on physiological, cognitive, and psychological changes within the individual. Topics such as the diversity of aging experiences, retirement, widowhood, coping with illness, family care giving, and mental health issues.

Fulfills the following degree requirement(s): PSYC - Developmental Psych

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PSYC 101

PSYC 357 Lifespan Development**credit(s): 3**

Lifespan development explores the physical, cognitive, and socio-emotional changes that humans experience across the lifespan from birth through old age. We address questions such as: "Is development continuous or discontinuous?"; "Are we the product of nature or nurture?"; "Do all people follow a similar trajectory or is human development marked by diversity?". Drawing on developmental, social and cognitive psychology, and an understanding of development milestones of each age period, as we investigate development we pay special

attention to the roles of parents, peers, schools, and socioeconomic contexts in those processes.

Fulfills the following degree requirement(s): PSYC - Developmental Psych

Prerequisite(s): PSYC 101

PSYC 364 Abnormal Child Psychology credit(s): 3

An overview of theory, research, and practice in developmental psychopathology. The major disorders of childhood are reviewed. Upon sufficient demand.

Fulfills the following degree requirement(s): PSYC - Clinical Health

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 365 Ethics in Psychology credit(s): 3

Using the APA ethical guidelines for psychologists we examine the aspirational goals, the standards themselves, the history of the current standards, and how to apply them in a variety of situations faced by psychologists.

Fulfills the following degree requirement(s): PSYC - Area Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101

PSYC 370 Educational Psychology credit(s): 3

Designed to guide students in the application of psychological theory and research to work in the classroom. Includes topics such as learning, aspects of human development that influence learning, and how to structure the classroom environment to maximize learning. Upon sufficient demand.

Fulfills the following degree requirement(s): PSYC - Elective

Prerequisite(s): PSYC 101

PSYC 375 Cross-cultural Psychology credit(s): 3

An exploration of the psychological research which seeks to understand differences and similarities in human behavior when compared across cultures and groups.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 376 Forensics credit(s): 3

Introductory level course to the field of forensic psychology, the branch of psychology which focuses on the application of psychological research data and principles within the legal arena. Students are introduced to the process of applying psychological knowledge, concepts, and principles within the civil and criminal court systems. Includes an introduction to an overview of topics such as the history of forensic psychology, an overview of the legal system, consultation to legal parties, ethical issues, eye witness testimony, assessment, evaluation of malingering, competency in criminal proceedings, civil commitment, child custody, psychologist testimony in

courtroom settings, assessment of sexual offenders, assessment of violent and homicidal behavior, treatment of crime victims, police and investigative psychology, and careers within this field. A variety of formats including lecture, readings, presentation by class members on selected topics, and guest speakers from within the legal arena. Disclaimer: Course by virtue of its topic addresses issues related to criminal activity and the subsequent legal proceedings. Although it may seem obvious, each person should consider carefully whether the content is suitable before enrolling in the course as the lectures, readings, and other materials may at times involve topics related to violence and sometimes sexual material, which may be offensive to some people.

Equivalent(s): CRIM 370

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 380 Industrial-Organizational Psychology **credit(s): 3**

SA survey of psychology applied to the work experience. Selection, evaluation, leadership, and work motivation are among the broad range of topics covered.

Fulfills the following degree requirement(s): PSYC - Elective

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 381 Special Electives Topics **credit(s): 3**

Course repeatable for 9 credit.

Topic to be determined by faculty.

PSYC 385 Behavior Management **credit(s): 3**

A critical review of learning procedures used to effect behavioral change in the natural environment. Includes treatment of both normal and maladaptive behaviors.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101

PSYC 390 Psychopathology **credit(s): 3**

Survey of major emotional and behavior disorders; discussion of causation, symptomology, and treatment.

Fulfills the following degree requirement(s): PSYC - Clinical Health

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 395 Clinical Neuropsychology **credit(s): 3**

Neuropsychology is the study of the relationship between brain functioning and behavior, especially as it applies to psychopathology. The course incorporates an introduction to neuroanatomy, an overview of neuropsychological assessment, and clinical case studies.

Fulfills the following degree requirement(s): PSYC - Clinical Health

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 396 Health and Pediatric Psychology credit(s): 3

This course is designed to cover a survey of health/pediatric psychology (i.e., studying the interface between psychological and physical processes), while simultaneously providing in-depth analysis of various topic areas (e.g., oncology, pain, etc.). Course content emphasizes many aspects of health/pediatric psychology including basic and applied research, consultation, clinical intervention, and health promotion strategies.

Fulfills the following degree requirement(s): PSYC - Clinical Health

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 397 Children: Risk and Resilience credit(s): 3

This reading and writing intensive seminar focuses on factors and contexts that pose risks for development as well as those that promote resilience. Topics include the neuro-biological, behavioral, and social effects of child neglect, maltreatment, and other childhood trauma; an exploration of global and political issues including extreme poverty; a Children's Bill of Rights; and the research on resilience, including some promising programs to promote resilience. Recommended especially for students interested in clinical or social work with children or in teaching.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 398 Seminar: Community Psychology credit(s): 3

Combines an emphasis on exploring alternative methods of providing mental health services in the community and the identification of conditions of risk to psychological adjustment and the prevention or lessening of risk factors. This course has a service-learning component that requires a commitment outside of the classroom. Reading/writing intensive.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 399 Seminar: Clinical and Counseling Psychology **credit(s): 3**

An introduction to current theory and method in clinical and counseling psychology. Reading/writing intensive (WE designation).

Fulfills the following degree requirement(s): PSYC - Clinical Health

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 400 Environmental Psychology **credit(s): 3**

An exploration of the interaction between human behavior and the physical environment. Emphasis on perception, preference, and coping with less preferred environments.

Prerequisite(s): PSYC 101

PSYC 404 Psychology of Addiction **credit(s): 3**

This course provides a survey of psychological theory and research regarding addictive disorders and their treatment.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 410 Marriage and Family **credit(s): 3**

Individuals develop within a complex network of relationships. Among these, family relationships are especially significant due to their centrality and longevity. This course examines what we know from the empirical study of family relationships. Students are introduced to methods of studying family relationships as well as prominent theories and findings regarding marital and family functioning. Two themes span the variety of topics covered in this course: the first involves the importance of understanding the family as a system embedded in a particular socio-economic context; the second has to do with the interface between individual and family development.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 412 Family Systems: Theory and Practice **credit(s): 3**

Introduces students to the theory and practice of family systems. We compare and contrast various models of family systems including transgenerational, structural, strategic, and experiential approaches. This course is especially recommended for students considering a career in a clinical context as a therapist. We apply family systems theories to clinical case studies and examine how family therapists try to bring about change. Students will have an

opportunity to integrate these concepts as they begin to clarify and develop their own therapeutic framework.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 414 Group Process

credit(s): 3

Introduction to the theory and practice of group counseling and psychotherapy. Students in this course study both historical and current literature regarding the theoretical and experiential understandings of group purpose, developmental stages, dynamics such as roles, norms, and therapeutic factors, leadership orientations and process, counseling theories, group counseling methods, and skills.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 416 Psychology of Gender

credit(s): 3

A review of both the theory and empirical literature investigating the psychology of gender, including biological cognitive, developmental and psychosocial models.

Equivalent(s): WGST 352

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 422 Develop in Diverse Environmnts

credit(s): 3

Students in this course explore child development across various contexts with particular emphasis on broadening students' perspectives beyond normative development in white, middle class environments. Contexts explored include poverty and homelessness, racial discrimination, diverse family contexts (e.g., divorce, parents who are homosexual), foster care and adoption, violent/war stricken environments, and cross-cultural child-rearing practices. May include a service-learning component.

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 427 Culture and Mental Health Seminar

credit(s): 3

This reading, writing, and discussion intense seminar explores the role that culture plays in the manifestation, experience, and course of mental illness and the cultural foundations for understanding such illnesses. Although not required, recommended pre-requisites are Cultural Psychology (PSYC 318) and Psychopathology (PSYC 390).

Equivalent(s): PSYC 391

Prerequisite(s): PSYC 101 and PSYC 202 and PSYC 206

PSYC 428 Seminar: Psychology of Trauma

credit(s): 3

Since the Viet Nam war, our culture has become increasingly familiar with the terms 'trauma' and 'post-traumatic stress disorder' (PTSD). But what is trauma, exactly, and what are its effects? Is the nature of the trauma (type, duration) related to its impact? As a discipline, what

do we know about the onset, duration and prognosis of PTSD? What do we know about the experience of PTSD? This course addresses these questions and considers both intrapersonal (biological and cognitive) and interpersonal dimensions of trauma.

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 432 Core Integration Seminar:

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): PHIL 301 or WGST 237C or RELI 276 or RELI 376

PSYC 434 Cognitive Neuroscience

credit(s): 3

Advanced discussion of how the brain performs cognitive processes (such as perception, attention, memory, and other select topics). Draws heavily on empirical studies to assess theories of brain function and neural processing.

Fulfills the following degree requirement(s): PSYC elective

Prerequisite(s): PSYC 101 AND 202 AND 206 AND (300 OR 305) OR NEUR 201

PSYC 449 Advanced Special Electives

credit(s): 3

Course repeatable for 9 credit.

Advanced theory, research or application topic to be determined by faculty.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 450 Advanced Statistics in Psychology

credit(s): 3

An advanced treatment of topics and techniques commonly used by psychologists, including the general linear model, coding schemes, multiple correlation and regression, analysis of variance and covariance, planned and post hoc tests, and the use of statistical computer packages. Format is combined lecture/lab. Fall and/or Spring. **Fulfills the following degree requirement(s):** PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 454 Judgement and Decision Making credit(s): 3

What should people do? What do people actually do? In this course we investigate how and why the answers to these two questions are sometimes different. We utilize theories in social psychology and behavioral economics to gain a better understanding of why human beings often diverge from "rational" decision making processes and what consequences this has for individuals, groups, and society as a whole.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 488 Advanced Research Designs credit(s): 3

This class is the first in a two-course Research Concentration sequence that builds on the information presented in lower division Research Methods (PSYC 206) and Statistics (PSYC 202) classes. During this semester students will learn about ethical considerations that all Psychologists must adhere to and different research designs to describe, predict, and control behavior across a variety of subfields in Psychology. By the end of this course, all students will have formulated and proposed an empirical research study in collaboration with the course instructor and their main faculty research advisor. Offered annually in spring semester only.

Fulfills the following degree requirement(s): PSYC - Research Concentration

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Must be the follow Concentration: Research

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202); PSYC 206 minimum grade: A-

PSYC 489 Advanced Research Analyses credit(s): 3

This class is the second in a two-class Research Concentration sequence and builds on the information presented in PSYC 488 – Advanced Research Designs. During this semester students will conduct studies proposed in their PSYC 488 research proposals and learn how to analyze, write-up, and present the empirical data that they have collected from their research proposal in PSYC 488. Offered annually in the fall semester only.

Fulfills the following degree requirement(s): PSYC - Research Concentration

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Must be the follow Concentration: Research

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202) and PSYC 488; PSYC 206 minimum grade: A-

PSYC 457 Poverty and Social Class credit(s): 3

Service learning course. We examine the social constructions of poverty and wealth and their outcomes (perceived, as well as measured) on well-being. Through our readings and students' connections to those living in poverty in Spokane we develop an understanding of the obstacles

and hardships that accompanies those living in poverty.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 458 Social Relationships and Health

credit(s): 3

This course explores the most up-to-date social psychological research and theory on interpersonal relationships, with a specific focus on how close relationships (and a perceived lack of social connection) impact individual health and well-being. Examples of topics explored in this course include the impact of loneliness on health and social functioning; forgiveness and sacrifice within intimate relationships; self-disclosure and social support; friendship; relationships and technology.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 460 Testing and Measurement

credit(s): 3

Emphasis on the theoretical aspects of psychological testing for test administration, construction, and evaluation. Either PSYC 460 or PSYC 462 (but not both) will count toward Psychology major and minor requirements.

Fulfills the following degree requirement(s): PSYC - Elective Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 462 Psychological Assessment

credit(s): 3

Emphasis on the theoretical aspects of psychological testing for test administration, construction, and evaluation in clinical settings. Either PSYC 460 or PSYC 462 (but not both) will count toward Psychology major and minor requirements.

Fulfills the following degree requirement(s): PSYC - Elective Elective **Restriction(s):**

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 465 History and Systems of Psychology

credit(s): 3

The various systematic approaches to the understanding of psychological phenomena are surveyed in historical context; such schools as structuralism, functionalism, psychoanalysis

humanistic psychology, and varieties of behaviorism and cognitivism, are considered.

Fulfills the following degree requirement(s): PSYC - Elective Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101

PSYC 470 Behavior Analysis

credit(s): 4

The attitudes, principles, and techniques which enter into the experimental analysis of behavior. Concentrated laboratory study and the communication of experimental findings.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101, PSYC 315 or EDSE 320

PSYC 470L Behavior Analysis Lab

credit(s): 0

See PSYC 470 course description. To be taken concurrently with PSYC 470.

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Corequisite(s): PSYC 470

Prerequisite(s): PSYC 101

PSYC 472 Psychology of Consciousness

credit(s): 3

This class examines the relationship between mind and brain based upon current philosophical and empirical perspectives.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):
Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 474 Seminar: Attachment Across the Lifespan

credit(s): 3

Seminar course explores the basic principles of attachment theory and an analysis of attachment relationships (e.g., parent-child, romantic partners) at various points in the lifespan. May include a service-learning component. Reading/writing intensive.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 476 Seminar: Mindfulness and Psychotherapy

credit(s): 3

The psychotherapeutic value of mindfulness is gaining empirical support within Western science and is increasingly being utilized in psychotherapy. This reading/writing intensive seminar is a practical, experiential, and academic exploration of mindfulness and its relevance to psychotherapy. Students are introduced to and practice self-applied mindfulness training,

and will review and evaluate empirical and theoretical literature exploring mindfulness-based practices, and discuss ways to incorporate mindfulness into our personal and professional lives. Further exposure to advanced research methodologies, students are introduced to (or review) small N and case study methods to investigate their experiences with mindfulness-based practices. Reading/writing intensive (WE designation).

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 478 Human Flourishing

credit(s): 3

Human Flourishing explores what is constructive, beautiful and healthy about human beings and their social interactions. This course provides familiarity with the Positive Psychology movement and what it brings to the social psychology table that helps us understand and improve ourselves and the communities in which we reside (e.g. our relationships, workplaces). Some of the section topics include: healthy relationships and their benefits, happiness as both a cause and an effect of positive outcomes, distinguishing positive emotions (e.g. awe, elevation, gratitude) and their outcomes, and the importance of personal well-being for the workplace and our economy. Reading/writing intensive.

Fulfills the following degree requirement(s): PSYC - Elective

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 485 Special Topics in Advanced T/P/R

credit(s): 3

Topic to be determined by faculty.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 488 Advanced Research Design

credit(s): 3

This class is the first in a two-class Research Concentration sequence that builds on the information presented in lower division Research Methods (PSYC 206) and Statistics (PSYC 202) classes. During this semester students will learn about ethical considerations that all Psychologists must adhere to and different research designs to describe, predict, and control behavior across a variety of subfields in Psychology. By the end of this course, all students will have formulated and proposed an empirical research study in collaboration with the course instructor and their main faculty research advisor.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): (EDSE 320 or HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 489 Advanced Research Analyses **credit(s): 3**

This class is the second in a two-class Research Concentration sequence and builds on the information presented in PSYC 488 Advanced Research Designs. During this semester students will conduct studies proposed in their PSYC 488 research proposals and learn how to analyze, write-up, and present the empirical data that they have collected from their research proposal in PSYC 488.

Prerequisite(s): (EDSE 320 or HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 490 Directed Study **credit(s): 0-3**

Course repeatable for 3 credit.

Directed study of special topic to include readings and practical application.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 492 Directed Reading in Psychology **credit(s): 1-3**

Directed reading of an advanced topic in the field of psychology; reports submitted, conferences attended, and examination taken at the judgment of the Directed Reading Director.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 493 Group Research Topics **credit(s): 0-3**

Course repeatable for 12 credit.

Supervised research experience as a part of a research team working on a specific project under the direction and supervision of a faculty member.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 494 Tutoring **credit(s): 0-3**

Course repeatable for 12 credit.

Advanced psychology students participate in the tutoring and proctoring of students who can benefit from special assistance in a particular area of psychology, especially in research methods. It is assumed that tutors and proctors have an especially good command of the subject matter. Fall and Spring.

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 495 Practicum **credit(s): 1**

Course repeatable for 3 credit.

Supervised agency experiences in one or more of the applied aspects of psychology. Only one credit may be counted toward the requirements for the Psychology major.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Prerequisite(s): PSYC 390, minimum grade: B- and PSYC 399, minimum grade: B-

PSYC 496 Individual Research Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Supervised individual research on a topic of interest to the student and approved by and arranged with a faculty member.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 497 Internship **credit(s): 0-6**

Course repeatable for 9 credit.

Supervised research experience as a part of a research team working on a specific project under the direction and supervision of a faculty member.

Fulfills the following degree requirement(s): PSYC - Area D 450-497

Restriction(s):

Must be in the following Major(s): Psychology

PSYC 498 Comprehensive Alternate **credit(s): 0**

Comprehensive Alternate course is for students who have either taken PSYC 455/455L (grade of B or better) OR taken the GRE Subject Test in Psychology (test scores need to be reported at or above the 12th percentile to the Psychology Department) OR completed independent research and presented this work at a conference.

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

PSYC 499 Comprehensive **credit(s): 0**

Students must take the Major Fields Test (MFT) in Psychology and score at or above the 45th percentile to pass. The MFT is administered at least once a semester by the Psychology Department.

Restriction(s):

Must be in the following Major(s): Psychology

Must be the following Class(es): Junior, Senior

Prerequisite(s): PSYC 101 and (HPHY 210 or PSYC 206 or SOCI 204) and (BUSN 230 or HPHY 205 or MATH 321 or NURS 320 or PSYC 202 or SOCI 202)

Religious Studies

Chairperson: Shannon F. Dunn

Professors: E. Clark, H. Doohan (Emerita), L. Doohan (Emeritus), J. Downey (Emeritus), S. Dunn, P. Hartin (Emeritus), R. Large, K. McCrudden, P. McCormick, J. Milos, C.S.J (Emerita), M. Rindge, L. Schearing (Emerita), J. Sheveland, C. Siejk (Emerita), B. Tyrrell, S.J. (Emeritus)

Associate Professors: R. Callahan, G. Chien, E. Goldstein, R. Hauck (Emeritus), M. McCabe, J. Mudd, R. Siebeking, A. Wendlinder, K. Vander Schel

Assistant Professors: I. Idumwonyi, S. Porter

Senior Lecturer: P. Baraza, S. Starbuck,

Lecturers: Q. Tran, S.J., B. Kevin Brown

The department offers one major and one minor:

Bachelor of Arts, Religious Studies major

Minor in Religious Studies

Religious Studies at Gonzaga University is guided by a recognition of the increasingly globalized and diverse character of the contemporary world. Complementing such diversity, the course offerings in the Department of Religious Studies employ a rich array of academic methods to investigate the cultural, social, and religious realities that animate the subjects of Religion and Theology. In order to better understand the complex, globalized world in which they find themselves living, Religious Studies majors are given the tools to explore a diversity of religious traditions. In addition, through the appreciation of the variety of methods and approaches that define the academic study of religion, Religious Studies majors cultivate the kinds of robust, critical thinking skills that will better enable them to navigate the many complex issues and problems that define the contemporary world.

Students majoring in Religious Studies are required to fulfill 36 credit hours in accordance with the following four methodological areas: one course in Sacred Texts and Traditions; one course in Theology and Spirituality; one course in Religion, Culture, and Society; one course in Ethics. In addition, majors are required to take one course in Methodology (399) and at least four seminar (400 level) courses, including Senior Thesis (499) and/or Internship (497). The remaining nine credits for the major are electives and may be fulfilled by taking courses in any of the four methodological areas listed.

Students minoring in Religious Studies are required to fulfill 18 credit hours in accordance with the following: one course in Ethics; one course in Methodology (399); and two courses at or above the 400 seminar level. Any remaining credits needed for the required total of 18 credit hours are electives and may be fulfilled by taking courses in any of the four methodological areas listed.

B.A. Major in Religious Studies 36 Credits

Sacred Texts and Traditions courses:	3 credits
RELI 101 – 124	
RELI 201 - 224	
RELI 301 - 324	
Theology and Spirituality courses:	3 credits
RELI 126 - 149	
RELI 226 - 249	
RELI 326 - 349	
Religion, Culture, and Society courses:	3 credits
RELI 151 - 174	
RELI 251 - 274	
RELI 351 - 374	
Ethics courses:	3 credits
RELI 176 - 184	
RELI 276 - 284	
RELI 376 - 384	
RELI 100 - 499	9 credits
RELI 399 Methodology	3 credits
RELI 400-499	9 credits
One of the following two courses:	3 credits
RELI 497 Internship	
RELI 499 Senior Thesis	

Minor in Religious Studies: 18 Credits

Ethics courses:	3 credits
RELI 176 - 184	
RELI 276 - 284	
RELI 376 - 384	
RELI 100 - 498	6 credits
RELI 399 Methodology	3 credits
RELI 400-498	6 credits

Courses:

RELI 101 Hebrew Bible

credit(s): 3

This course offers an introduction to the literature, religion, and social practices of the people of ancient Israel as it is reflected in the Hebrew Bible. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Global Studies, Core: World or Comparative Rel

RELI 102 Old and New Testament credit(s): 3

A study of both Old and New Testaments as the scriptures of Christianity. Offered occasionally.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Christian or Catholic

RELI 103 New Testament credit(s): 3

An exploration of the world and environment of the New Testament writers as well as Christianity's roots in the Jewish tradition. A basic introduction to the writings of the New Testament. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Christian or Catholic

Equivalent(s): CATH 151

RELI 104 Narrating Jesus credit(s): 3

This course introduces students to three different scholarly, interpretative methodologies for studying Jesus and the New Testament: historical criticism, narrative criticism, and application of the social sciences. Offered every other semester

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Christian or Catholic

RELI 107 Gospels: Life and Teachings of Jesus credit(s): 3

Who was Jesus? An academic study of Jesus as he is presented in the three synoptic gospels (Matthew, Mark, Luke) in the New Testament. Specific attention is given to the unique perspectives of each gospel, and to the ethical implications of Jesus's life and teachings. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): CATH 152

RELI 126 Introduction to Christian Theology credit(s): 3

An introduction to the academic discipline of Christian theology and the way in which the Christian community makes believing possible and meaningful for contemporary people of faith. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 156

RELI 190 Directed Reading credit(s): 1-6

Course repeatable for 12 credit.

Topic to be decided by faculty.

RELI 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Global Studies, Core: World or Comparative Rel

RELI 202 Spirituality of Apostle Paul **credit(s): 3**

Explore Paul's personal experience of faith in what he perceives as the cosmos altering significance of the life and death of Jesus of Nazareth on the one hand, and the practical implications of the Christ event for living transformed lives in the setting of communal fellowship, on the other. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): CATH 250

RELI 203 Feminist Interpret of the Hebrew Bible **credit(s): 3**

This course introduces students to the Hebrew Bible with special attention given to texts dealing with women. Offered occasionally.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): WGST 251

RELI 206 Hebrew Bible-Ancient Near East **credit(s): 3**

A comparative approach to human-human, human-divine, and divine-divine relationships in the Hebrew Bible and the ancient Near East, focusing on the human relational context and commitments towards social justice among warring cultures. Building intercultural competence, this course carries a global studies emphasis. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): HONS 227

RELI 207 Messiah and Covenant **credit(s): 3**

Examine the controversial issues "messiah" and "covenant" in the biblical text as well as its appropriations and distortions within the Christian and Catholic traditions. Students will better understand competing perspectives in the Old and New Testaments, the multivalent nature of the biblical text historically, culturally, and theologically, and modern critical comparative methods for applying the text and thinking theologically. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Social Justice, Core: Christian or Catholic

RELI 220 Catholicism **credit(s): 3**

Exploration of the identity of the Roman Catholic tradition with emphasis on Catholicism's dialogue with the contemporary world.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, Core: Christian or Catholic

RELI 226 Challenges in Catholic Theology **credit(s): 3**

This course aims to explore the teachings and debates around several classical and perennial themes in Christian theology around which significant dialogue and debate exist today. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 256

RELI 227 Theology in Global Contexts credit(s): 3

A course in Christian and Catholic traditions with a Global Studies designation (GS), which investigates opportunities and challenges posed by religious and cultural diversity in our world today. Topics include Theologies of Religion, Culture, World Christianity, and Catholic Social Teaching. Offered most summers.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic, Core: Global Studies

Equivalent(s): CATH 257

RELI 228 Catholicism credit(s): 3

Exploration of the identity of the Roman Catholic tradition with emphasis on Catholicism's dialogue with the contemporary world. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 228

RELI 229 Christian Diversity credit(s): 3

An introduction to the history, beliefs, and practices of a wide variety of denominations within Christianity such as Orthodox, Lutheran, Anglican, Reform, Anabaptist, and others. Students will also explore the impact of culturally diverse expressions of Christianity. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

RELI 230 Contemporary Church credit(s): 3

A theological and historical examination of the contemporary church from the perspective of the Second Vatican Council.

Fulfills the following degree requirement(s): CATH - Catholic Studies elec, RELI - Theology & Spirituality

Equivalent(s): CATH 260

RELI 232 Global Christologies credit(s): 3

Examine how Christian theological interpretations of the significance of the person of Jesus of Nazareth are shaped by the context in which church communities live. After examining Christological method, the biblical witness to Jesus, and early Christological doctrines, the course moves continent by continent to examine different contextual Christologies and the ways they call the Christian community to social transformation toward the reign of God. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Social Justice, Core: Christian or Catholic, Core: Global Studies

Equivalent(s): CATH 262

RELI 233 Christian Spirituality credit(s): 3

The sources, nature, and forms of Christian spirituality historically and within the contemporary context. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 263

RELI 234 Feminism and Christianity credit(s): 3

An introduction to the academic discipline of Christian theology, and the way in which the Christian community makes believing possible and meaningful for contemporary people of faith. Particular attention is given to the impact of feminist scholarship on the doing of Christian theology. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): WGST 252

RELI 235 Christian Mysticism credit(s): 3

Explore the history, theology and practice of Christian mysticism from the early Church to the present day. Students are guided by the curriculum of the contemplative master, Thomas Merton, who situates the discipline of mysticism in the center of Christian life, and in relation to tradition, doctrine, worship, spiritual experience and ethical action. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 265

RELI 236 God and Evil credit(s): 3

Explore the problem of God and the experience of evil from within the Christian theological tradition. Our exploration includes an examination of theological texts, poetry, film and the visual arts. Offered every other year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 266

RELI 240 Seminar: Special Topics credit(s): 3

Course repeatable 3 time.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Systematic Theology, Core: Christian or Catholic

RELI 248 Christian Nonviolence credit(s): 3

The choice of violence or nonviolence as methods of social change to create a more just society is one of the central issues in Christian ethics. Global events have refocused attention on methods of social change necessitating decisions regarding violence and nonviolence. Martin Luther King faced this choice. Based on his understanding of Christianity, he chose the way of nonviolence. Beginning with scriptural readings and following an historical overview of nonviolence within the Christian tradition, this course then moves to an in-depth analysis of King's nonviolent ethic, its religious and theological foundations, his reasons for rejecting violence, and his vision of justice. We will examine King's religious beliefs, sources, presuppositions, and goals of his understanding of nonviolence as we seek to determine whether nonviolence can achieve a more just society. Although King frames his belief in nonviolence with a Christian context, the course will also show the influence of Mohandas Gandhi on King's development of nonviolence. Fundamentally both King and Gandhi, and thinking about nonviolence, refer us to the Year 2 theme of the Core, Being and Becoming: Who are we and what does it mean to be human?

Fulfills the following degree requirement(s): Core: Christian or Catholic

RELI 252 African American Religions credit(s): 3

Introduces students to the variety of African American religions that developed in the Americas during and after the Atlantic slave trade up to today. Within various forms of Christianity, Islam, and even Hip Hop, we will examine the interplay between religion, race, colonialism, and self determination. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): CRES 252

RELI 253 Islamic Civilization credit(s): 3

Introduction to the history of Islamic civilization centering on the relationship of religion to society and culture; the origins of Islam; Islamic belief and practice; Islam, politics, and society; fine arts and intellectual developments; and Islam in the modern world. Offered every semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 368

RELI 254 American Christianities credit(s): 3

A thematic and chronological framework for understanding the diversity of Christianities in American history and culture. We investigate the powerful social, cultural, political, and intellectual role Christianity has played throughout our nation's past. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Christian or Catholic

RELI 255 Religions of the African Diaspora credit(s): 3

This course introduces students to a variety of religions in the African diaspora. As such, the course focuses on theoretical understandings of diaspora, Africa, the Caribbean, and the United States. Diaspora forces a unique approach to the study of religion, as communities in diaspora prompt questions about identity, multivocality, ritual, home, story, and space. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 256 African Religious Traditions credit(s): 3

Introduction to various forms of religiosity in sub-Saharan Africa. Through the study of religion, this class prompts students to better understand various aspects of African cultures by dismantling stereotypes and assumptions that have long characterized the study of religions in Africa. Offered every semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): HONS 222

RELI 257 Critics of Christianity credit(s): 3

What can we learn about Christianity from its critics? Examine people (such as, Jesus, Voltaire, Victor Hugo, Nietzsche, Freud, Malcolm X, Martin Luther King, Jr., Stephen Colbert) and the Church's treatment of groups (Jews, Latin Americans, women, LGBTQ persons) in order to

understand the critiques of those within and outside the Church. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Social Justice, Core: Christian or Catholic

RELI 258 Christian-Muslim Relations credit(s): 3

A historical, topical, and socio-cultural survey of Christian-Muslim relations from the 7th century (CE) to today. Our exploration will revolve around on a series of diverse case studies on different dynamics of this encounter, to include key historical episodes, literary productions, theological discourses, and modern challenges and opportunities. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 259 Religions of Asia credit(s): 3

This survey course introduces the following Asian religions: Hinduism, Buddhism, Confucianism, Daoism, and Shinto. We examine the teachings of these Asian traditions in the context of their diverse cultural and historical settings. We also consider how these Asian religions have adapted to fit the contemporary world and how they have influenced popular culture. Offered every semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 330

RELI 261 History and Teaching of Christianity credit(s): 3

Designed to give students of Christian and non-Christian backgrounds an introductory knowledge of the growth and development of Christianity from its beginnings to the present day. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Christian or Catholic

RELI 263 Hinduism credit(s): 3

Introduction to the foundations and milestones of Hinduism and the importance of Hindu mythology in shaping Indian culture and rituals. Offered infrequently.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 264 Buddhism credit(s): 3

Introduction to Buddhism examines the historical and cultural contexts in which Buddhist beliefs and practices were developed in Asia and how they spread to the West. We also study how, throughout history, Buddhism has adapted to a changing world. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 333

RELI 267 Early Christianity credit(s): 3

Focus on the rise of Christianity in the religious pluralism of late antiquity, and the way in which the early Christians, as citizens of a non-Christian culture, defined themselves, the church and their place in society. Examine the philosophical, social and religious context in the Roman

empire, and central theological and institutional developments in the church from its origin to the fourth century. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Christian or Catholic

Equivalent(s): CATH 269

RELI 268 Judaism **credit(s): 3**

Explore Judaism as a living religion and a diverse religio-cultural phenomenon. Topics include Judaism's history and a survey of contemporary Jewish religious practices. Offered every other year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 276 Principles of Christian Ethics **credit(s): 3**

How are Christians to fashion moral choices, character, and communities? What are the sources, tools, and rules of Christian ethics? What kind of justice does the Christian faith demand? Offered every semester.

Fulfills the following degree requirement(s): RELI - Religious Ethics, Core: Social Justice, Core: Ethics

Equivalent(s): CATH 255

RELI 277 Bible and Ethics **credit(s): 3**

Biblical texts address multiple moral and ethical issues, often framing such issues as questions of justice or injustice. This class explores four contemporary ethical issues by placing personal narratives/experiences into mutually critical dialogue with biblical texts. Offered every year.

Fulfills the following degree requirement(s): RELI - Religious Ethics, Core: Social Justice

Equivalent(s): WGST 357

RELI 286 Special Topics: Texts Theology **credit(s): 3**

Course repeatable for 9 credit.

Selected topics in Religious Studies in the areas of either Sacred Texts and Traditions or Spirituality and Theology. Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Sacred Texts, RELI - Theology & Spirituality

RELI 287 Special Topics: Culture Ethics **credit(s): 3**

Course repeatable for 9 credit.

Selected topics in Religious Studies in the areas of either Religion, Culture, and Society or Ethics. Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, RELI - Religious Ethics

RELI 290 Directed Study **credit(s): 1-6**

Course repeatable for 12 credit.

Topic to be determined by faculty.

RELI 301 Stories of the Quran **credit(s): 3**

A literary, historical, and socio-cultural introduction to the Quran and its exegesis through the stories of the prophets. Overall explore how stories and storytelling can help us ask

fundamental questions, not only about Islam but also about the human experience broadly. Offered every other year.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Global Studies, Core: World or Comparative Rel

RELI 302 Bible and Film **credit(s): 3**

Explore different ways in which religion (and theology) and film can be placed into mutually critical conversation. Specific attention given to constructing mutually enriching dialogues between recent films (1999-present) and specific biblical texts. How can biblical texts provide new lenses for the viewing of films? In what ways can films enrich the understanding and interpretation of biblical texts? Offered every semester.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Sacred Texts, Core: Christian or Catholic

Equivalent(s): FILM 370

RELI 326 Liturgy **credit(s): 3**

A detailed survey of Christian and Catholic liturgy, including the roots and contemporary manifestations of celebration, ritual, and symbol. Offered every year.

Fulfills the following degree requirement(s): Core: Christian or Catholic

Equivalent(s): SOSJ 361

RELI 328 Women in Jewish Traditions **credit(s): 3**

This course examines the role of women in the sacred texts of the Jewish tradition. Particular attention is given to the legal status of women, complex issues of identity, tradition, and family, and the geographic diversity of Judaism in history and today. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Global Studies, Core: World or Comparative Rel, Core: Writing Enriched

Equivalent(s): WGST 354

RELI 329 Theological Anthropology **credit(s): 3**

This course explores classical, modern, and contemporary theological voices that address the shifting conceptions of human personhood, the nature of religious experience, and the tasks and ends of Christian living. Particular attention is given to the themes of creation in the image of God, human freedom, original sin and divine grace, redemption and liberation, Christian community, and the changing perspectives on Christian anthropology in contemporary thought. Offered every other year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

RELI 333 Political Theology **credit(s): 3**

An inquiry into the political shifts in religious faith and practice in the wake of globalization and modern secularism. Students explore critiques of classic accounts of divine transcendence and religious authority, the growing recognition of the plight of the poor and marginalized, and the increasingly political focus of contemporary theologians and religious thinkers in response to this rapidly shifting intellectual milieu. Offered every year.

Fulfills the following degree requirement(s): RELI - Christian, RELI - Theology & Spirituality, SOSJ - Block A, Core: Christian or Catholic

Equivalent(s): SOSJ 311

RELI 334 Interreligious Dialogue credit(s): 3

Investigate the imperative of Christianity and other world religions to engage in respectful dialogue and mutual understanding, expose pressing practical issues such as religious violence and divisive ideologies, and propose a comparative theological perspective highlighting spiritual engagement, moral responsibility and reconciliation. Offered every semester.

Fulfills the following degree requirement(s): SOSJ - Block C, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 304, SOSJ 365

RELI 335 Faith, Justice, and The Church credit(s): 3

What does the Christian faith have to say about our economic, political, social, and cultural structures and practices? An examination of the ways the Church calls people to practice a 'faith that does justice.'

Fulfills the following degree requirement(s): RELI - Theology & Spirituality

RELI 338 Discernment and Faith Traditions credit(s): 3

An exploration of the ways people make important decisions based on their belief and practice in a particular religious/cultural setting. The course is built on the foundation of a theological view of the sacred relationship between human beings and the divine/wisdom figures who support and challenge humans to be the best version of themselves by making sound, responsible, and moral choices. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Global Studies, Core: World or Comparative Rel

RELI 339 Ignatian Spirituality credit(s): 3

This course is designed to introduce students of Christian and non-Christian backgrounds to Ignatian Spirituality. The major part of the course will study the dynamics of the Spiritual Exercises of Saint Ignatius by exploring the Ignatian themes of spiritual discernment, contemplation in action, and finding God in all things. Offered every semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 359

RELI 341 Christian Morality and Eating credit(s): 3

Why biblical and Christian morality demands just and sustainable agricultural systems that feed the hungry, compensate and protect workers, and treat animals humanely. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Social Justice, Core: Christian or Catholic

Equivalent(s): CATH 356

RELI 342 Trinity credit(s): 3

An introduction to the theology of the Trinity in its historical developments and contemporary interpretations, this course examines the content and method of Christian theology by focusing on the doctrine of the Trinity. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic

Equivalent(s): CATH 355

RELI 354 Islamic Civilization **credit(s): 3**

Introduction to the history of Islamic civilization centering on the relationship of religion to society and culture; the origins of Islam; Islamic belief and practice; Islam, politics, and society; fine arts and intellectual developments; and Islam in the modern world.

Fulfills the following degree requirement(s): INST - Asian Studies content, INST - Difference, RELI - World's Religion conc, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): HIST 348, INST 368

RELI 355 Islam in the Contemporary World **credit(s): 3**

Examine contemporary interpretations and expressions of the Islamic tradition, focusing on the time period following 19th century colonialism and through the present day. After a brief introduction to the origins of the Islamic tradition (and its main figures), we examine how Muslims have responded to the political, social, and economic changes they encountered through European colonialism, and the realities they face in the postcolonial period. Offered every year.

Fulfills the following degree requirement(s): Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 492F

RELI 356 Native American Religions **credit(s): 3**

This course examines traditional Native cultures and contributions along with the cultural stereotypes that distort their reality. Includes the role of Christian missions in forming contemporary Native realities and studies the revitalization movements among North American tribes.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): NTAS 322

RELI 357 Sufism: Islamic Mysticism **credit(s): 3**

A historical and topical introduction of the world of Sufism, the mystical tradition of Islam. Some of the subjects we explore include the relationship of Sufism to "normative" Islam, social and ethical dimensions, ritual and performance (music, dance, poetry), and the challenges of modernity. Offered every other year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 358 Faith in a Secular Age **credit(s): 3**

An inquiry into the shifting place of religious faith and practice in the face of modern secularism and post-secularism. Throughout the course, students are introduced to various responses of Christian and Catholic thinkers to the exciting challenges of the rapidly shifting discussion of the place of faith and religious practice in the contemporary world. Offered every other year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Christian or Catholic

RELI 359 Religion and Globalization credit(s): 3

This course explores the impact of global networks of capitalism, communication, and transportation on religious ideas, practices, and transformations in the contemporary world. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 363 Buddhist Meditation and Practice credit(s): 3

A combination of the history of Buddhism and secularized contemplation activities. The course offers a history of Buddhist meditation along with an investigation of how contemporary Buddhist followers adapt Buddhist principles and meditation techniques to tackle issues related to emotional well-being, hospice care, therapy, and social justice. Offered every semester.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

RELI 364 Asian Religions in Film credit(s): 3

Explore Asian religions in contemporary Asian, European, and North American cultures through film. By focusing on how Asian religious themes are treated in each film, we learn to identify longstanding Asian religious themes in contemporary films. We also investigate how Asian religions are employed in films to address contemporary issues. Offered every year.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Reli, Culture & Society, Core: World or Comparative Rel

Equivalent(s): FILM 371

RELI 365 Religion and Film credit(s): 3

This course explores different ways in which religion (and theology) and film can be placed into mutually critical conversation of central concern are the diverse responses by theologians (Jewish and Christian) and films to trauma such as the Holocaust. Offered every year.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): FILM 372

RELI 366 Religion and Violence credit(s): 3

In today's world of alarming growth in sectarianism, radicalization, and terrorism across many continents, does religion simply give rise to human division or, is it- as some say - peaceful? This course not merely studies religious violence, it responds to it and encourages Gonzaga students to think with and beyond a variety of disciplines to develop their own skills of interpretation. Offered every year.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 305

RELI 371 African Religion and Migration in Catholic Europe credit(s): 3

In the wake of Europe—the historic and dominant home of Catholicism—recently becoming a destination for many West African migrants, who populate and impact the religious landscape, an essential work of the church and society is understanding the trending phenomenon. This course will deconstruct and analyze the various manifestations of interactions, common grounds, parallels, and similarities (more than the differences) embodied by African religions and Catholicism in ways that enable human flourishing. We will use multidisciplinary resources,

including immigration and ethnography—to explore a range of questions that animate these vibrant religious landscape: What happens when African religions encounter Catholicism at its epicenter? Specifically, what happens when the world's two fastest-growing Christian faiths (African Pentecostalism and Catholicism) come into contact, share worship space, and use identical sacramental objects and images in an intriguing contact zone? Many of our questions will also arise organically as students explore their standing in a pluralized world in light of assigned class readings.

RELI 376 Christian Sexual Ethics **credit(s): 3**

Explore Christian perspectives on the ethical dimensions of human sexuality and issues of gender. Offered every semester.

Fulfills the following degree requirement(s): HEAL - Electives, RELI - Religious Ethics, Core: Ethics

Equivalent(s): CATH 357, WGST 353

RELI 377 Ethics-Human Rights in Globalization **credit(s): 3**

Focus on religious and ethical responses to issues arising in relation to globalization, and specifically, the topic of human rights.

Fulfills the following degree requirement(s): RELI - Religious Ethics, SOSJ - Block A, Core: Global Studies

Equivalent(s): INST 383, SOSJ 310

RELI 386 Special Topics: Texts Theology **credit(s): 3**

Course repeatable for 9 credit.

Selected topics in Religious Studies in the areas of either Sacred Texts and Traditions or Spirituality and Theology. Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Sacred Texts, RELI - Theology & Spirituality

RELI 387 Special Topics: Culture Ethics **credit(s): 3**

Course repeatable for 9 credit.

Selected topics in Religious Studies in the areas of either Religion, Culture, and Society or Ethics. Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society

RELI 391 Directed Study **credit(s): 1-6**

Course repeatable for 12 credit.

Topic to be decided by faculty.

RELI 399 Methodology **credit(s): 3**

As preparation for the senior thesis, and for the advanced study of religion and theology, this course will review the various critical-methodological approaches used in the discipline. In addition to entering the academic conversation, students learn techniques for accessing, evaluating, and presenting research. Offered in the Fall.

Restriction(s):

Must be in the following Major(s): Religious Studies

Must be the following Class(es): Junior, Senior

RELI 413 The Gospel of John **credit(s): 3**

This upper-level Sacred texts course provides students with a detailed reading of the Gospel of John with attention given to the theological, literary, historical, and sociological aspects of the Fourth Gospel. Special attention will be given both to the role of symbolism in the Fourth

Gospel, and the way the Gospel employs narrative to give expression to its unique witness to the story of the life, death, and resurrection of Jesus.

Fulfills the following degree requirement(s): RELI - Sacred Texts, Core: Christian or Catholic
RELI 432 Core Integration Seminar credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

RELI 467 Early Christian Sex and Gender credit(s): 3

This course examines early Christian thought and practice around sex, gender, and sexuality in the context of the wider ancient Roman world. We will read New Testament texts, saints' lives, martyr acts, medical manuals, and homilies, as well as encountering artifacts and material culture. We will also intersperse readings in contemporary theories of gender, sexuality, and religion.

Restriction(s):

Must not be the following Class(es): Freshman

RELI 486 Special Topics: Texts Theology credit(s): 3

Course repeatable for 9 credit.

Selected topics in Religious Studies in the areas of either Sacred Texts and Traditions or Spirituality and Theology. Topic to be determined by instructor.

Fulfills the following degree requirement(s): RELI - Sacred Texts, RELI - Theology & Spirituality

RELI 487 Special Topics: Culture Ethics credit(s): 3

Course repeatable for 9 credit.

Seminar-format, upper-division selected topics in Religious Studies in the areas of either Religion, Culture, and Society or Ethics. Topic to be determined by instructor.

RELI 490 Directed Readings credit(s): 1-6

Course repeatable for 12 credit.

Topic to be determined by faculty.

RELI 493 Sociology of Religion credit(s): 3

Study of works of classical and contemporary sociologists on the social and cultural aspects of religion. Examine how religion is influenced by social conditions and often plays an important role in shaping society.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society

Equivalent(s): SOCI 384

RELI 497 Internship

credit(s): 0-6

Course repeatable for 6 credit.

In this course, students will work together with a faculty member to engage in sustained reflection on field-based experience in an internship.

RELI 499 Senior Thesis

credit(s): 3

Course repeatable for 3 credit.

In this course, students will write an original thesis in Religious Studies or Theology that brings together research, new insights, and application of research methodologies in the field.

Restriction(s):

Must be in the following Major(s): Religious Studies

Sociology

Chairperson: J. Johnston

Professor: A. Bertotti Metoyer

Associate Professors: M. Bahr, A. Bruns, M. Deland, V. Gumbhir, W. Hayes, J. Johnston, N. Morlock

Assistant Professors: A. Brower, A. Inlow, C. Schwarz

Professors Emeriti: J. Rinehart, E. Vacha

Lecturers: K. Brandi, M. DeGarmo

The department offers one major and one minor:

Bachelor of Arts, Sociology major

Minor in Sociology

The Sociology program helps students develop an awareness of the connections between our individual experiences and the groups to which we belong. Learning the theories and methodologies of sociology provides students with an excellent foundation for a variety of careers, including law, government service, teaching, and business. The department has designed the major to facilitate the acquisition of skills in social scientific theorizing and research design. The student may use elective credits to pursue an interest in a specific area of the discipline, such as social inequality, social psychology, social institutions, or deviance.

Students who are planning to obtain certification in elementary or secondary education, while majoring in Sociology, must consult with advisors in the department and in the School of Education to ensure all requirements may be met. The department advises students to choose a minor which will broaden and strengthen their social science knowledge.

B.A. Major in Sociology: 33 Credits

SOCI 101 Introduction to Sociology	3 credits
SOCI 202 Statistics for Social Science	3 credits
SOCI 204 Research Methods	3 credits
SOCI 311 Classical Social Theory	3 credits
SOCI 312 Contemporary Social Theory	3 credits
SOCI electives: No more than 6 credits at 200-level (SOCI 200-498, excluding SOCI 202 and SOCI 204.	15 credits
SOCI 499 Sociology Senior Capstone	3 credits

Minor in Sociology: 18 Credits

SOCI 101 Introduction to Sociology	3 credits
SOCI Electives: No more than 6 credits at 200-level (SOCI 200-498, excluding SOCI 202 and SOCI 204.	15 credits

Courses:

SOCI 101 Introduction to Sociology credit(s): 3

A general survey of the field of sociology and how human society works. Materials focus on an understanding of modern societies.

Fulfills the following degree requirement(s): HEAL - Intro Soc Struct & Ineq, Core: Social/Behavioral Sci

SOCI 190 Directed Study credit(s): 0-3

Course repeatable for 6 credit.

Topic determined by instructor.

SOCI 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

SOCI 200 Social Problem, Solutions and Social Change credit(s): 3

A course on the study of major social problems. Specifically, the course will demonstrate how sociology skills can be employed to bring about social change.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): SOSJ 240

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 202 Statistics for Social Science credit(s): 3

An introduction to the basic concepts of descriptive and inferential statistics with an emphasis on social scientific applications.

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminology, Sociology

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): SOCI 101 (or concurrent) or CRIM 101 (or concurrent)

SOCI 204 Research Methods credit(s): 3

Provides training and experience designing, conducting, and analyzing social research through projects using surveys, interviews, and observation. This course is useful for students contemplating careers in which knowledge concerning people (customers, clients, employees,

students, etc.) is needed for testing theories, making decisions, targeting appeals, etc. Required for all Sociology majors.

Equivalent(s): SOCI 304

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminology, Sociology

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): (SOCI 101 (or concurrent) or CRIM 101 (or concurrent))

SOCI 244 Sex, Gender and Society **credit(s): 3**

Explores theories and research on the constructions of masculinity and femininity and how these influence our individual lives and social institutions.

Fulfills the following degree requirement(s): SOSJ - Block B, Women's & Gender Studies

Equivalent(s): SOSJ 220, WGST 260

SOCI 246 Sociology of Sport **credit(s): 3**

Examine how sport creates and exists in relationship with social, cultural, political, and economic forces operating at multiple levels. The goals of the course are to understand sport as a social institution, develop critical analytical skills by examining issues relevant to sport, and to understand sport as a site for the reproduction and contestation of systems of social inequality.

SOCI 255 Sociology of Literature **credit(s): 3**

This course explores the relationship between literature and society through an intensive reading and examination of popular novels. By focusing on the production, transmission, representation and consumption of literature in society, students learn how to read academic and literary writing, and how to write using social scientific concepts to explain the cultural phenomenon of popular novels.

SOCI 283 Sociology of Health and Medicine **credit(s): 3**

This course examines the social context of health, illness and health care. Particular attention will be paid to the effects of culture and social inequality on health, the interaction of various health care professionals and political debates about the health care system.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): HEAL 201, SOSJ 221, WGST 207

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

SOCI 290 Directed Study **credit(s): 0-3**

Course repeatable for 15 credit.

Topic determined by instructor.

SOCI 295 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Topic determined by instructor.

SOCI 311 Classical Social Theory **credit(s): 3**

Analyzes the theories developed by Marx, Weber, Durkheim, and others during the nineteenth and early twentieth centuries and how these continue to influence the work of sociologists today. This course invites students to examine their own practices of theorizing.

Equivalent(s): SOCI 411

Prerequisite(s): (SOCI 101 (or concurrent) or CRIM 101 (or concurrent))

SOCI 312 Contemporary Social Theory **credit(s): 3**

Explores the major strategies for sociological theorizing developed during the twentieth century in America and Western Europe. Considers how constructions of modernity and postmodernity are central to understanding what theorizing means and what it can contribute to our work as sociologists and as citizens.

Prerequisite(s): (SOCI 101 (or concurrent) or CRIM 101 (or concurrent))

SOCI 322 Latin American Society **credit(s): 3**

An overview of Latin American development. Several socio-economic factors are examined. Development issues are broadly conceptualized within economic, demographic, and cultural dimensions. These variables are viewed as overlapping forces influencing development.

Fulfills the following degree requirement(s): HIST - Latin American History, HIST - Non-History elect

Equivalent(s): INST 315

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 323 Sociology of Race and Ethnicity **credit(s): 3**

This course will examine the foundations of race and ethnicity and how they inform constructions of difference in the past and present. Students will be introduced to definitions and theories of race and ethnicity, explore racial and ethnic identity, and analyze how race and ethnicity work in combination with other axes of difference such as gender, class, and nation to reproduce inequality.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOSJ 321

Restriction(s):

Must be the following Class(es): Freshman

SOCI 326 East Asian Society **credit(s): 3**

As a socio-historical survey of China, Korea and Japan from 1800 to the present, this course examines the political, economic, ideological, and cultural transformations within East Asia through the processes of imperialism, colonialism, modernization, war and revolution, and globalization. By exploring how cultural, social, and political dimensions overlap and influence economic development, students gain insight into contemporary social change, representation and power in East Asia.

Fulfills the following degree requirement(s): HIST - Asian History, HIST - Non-History elect

SOCI 327 Social and Economic Inequalities **credit(s): 3**

Examine the distribution of such social rewards as income, power, style of life, wealth, and prestige among members of a society. Also consider a variety of sociological explanations for the distribution of rewards; compare and contrast stratification systems across societies.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOSJ 322

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 329 Sociology of Culture **credit(s): 3**

Focus on analysis of rules and values that constitute American culture, especially in relation to how these are portrayed in mass media and the built environment.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 330 Society and the Individual **credit(s): 3**

Social psychology introduces novelty into the ancient pastime of speculating about human behavior and human groups by attempting to use scientific methods. This course focuses on the relationship between individuals and groups. It includes an examination of the impact of groups on individuals, and the impact of individuals on the groups to which they belong. Topics covered include friendship, leadership, influence, the self-concept, prejudice, and morality.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 332 Urban and Community Sociology **credit(s): 3**

This course investigates the way that urbanization- the increasing density and diversity of human settlements - creates challenges to and opportunities for the flourishing of communal life. We study the political economy of urban land use, the formation of segregated ghettos and ethnic enclaves, and gentrification. We also examine the potential for public spaces, community centers, parks and libraries to provide vital sources of social support and communal life. Spring, odd years.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): HEAL 332

Restriction(s):

Must not be the following Class(es): Freshman

SOCI 334 Social Movements **credit(s): 3**

Social movements are often characterized by the spontaneous development of new norms and social organization that may contradict, reinterpret and/or challenge existing social arrangements. The purpose of this course is to examine social movement behavior, and their role in promoting social change and social justice.

Fulfills the following degree requirement(s): SOSJ - Block C

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 337 Subcultures **credit(s): 3**

This course examines a specific type of social group - the subculture - and the relationship between subcultures and the larger culture. Students will review the historical development of subcultural studies, with dual emphasis on theory and methodology.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 342 Sociology of Family **credit(s): 3**

Examine images and practices of family life in American society. Use historical material to show how ideals about family life have developed. Discuss definitions of "family" as political, with a

special emphasis on the politics of gender. Connect debates over how to define and understand family with decisions about social policies.

Fulfills the following degree requirement(s): Women's & Gender Studies

Equivalent(s): WGST 360

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 343 Sociology of Reproduction **credit(s): 3**

This course investigates the history and sociology of reproduction primarily within the US context. It examines how reproduction is simultaneously biological and social, focusing on a wide range of topics, including intention, pregnancy, abortion, contraception, infertility, and breastfeeding. It distinguishes reproductive rights from reproductive justice and pays particular attention to how social institutions and intersecting inequalities influence reproductive practices and policies. Every other Spring.

Equivalent(s): HEAL 201

SOCI 349 Capitalism Environment Justice **credit(s): 3**

This course examines how capitalism structures human relationships and impacts the nonhuman world, creating uneven social and environmental benefits and burdens. Students will draw upon a range of critical perspectives, including political economy, political ecology, feminist theory, critical race theory, indigenous and post-colonial epistemology, critical geography, science studies, environmental justice, and other approaches. Resistance and social movement responses is emphasized.

Equivalent(s): SOSJ 349

SOCI 350 Deviant Behavior **credit(s): 3**

Knavery, skullduggery, cheating, crime, malingering, cutting corners, immorality, dishonesty, betrayal, wickedness, and all other unconventional activities are forms of deviance. All known societies have members who become deviants. This course introduces students to several theories explaining deviance and examines the life styles of a variety of deviants.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior

Equivalent(s): CRIM 350

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 353 Juvenile Delinquency **credit(s): 3**

An investigation of the nature and extent of juvenile delinquents in America. Special attention will be given to theoretical explanations; the effect of family, peers and school; and the history of the juvenile justice system in handling juvenile offenders.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior

Equivalent(s): CRIM 353

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 355 Elite and White Collar Deviance **credit(s): 3**

This course examines deviance and crimes committed by organizations and the rich and powerful. The nature, extent and societal effects of various types of elite and white collar

deviance are examined.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior, SOSJ - Block B

Equivalent(s): CRIM 355, SOSJ 323

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminal Justice, Criminology, Criminology, Sociology, Sociology

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 356 Sociology of Policing credit(s): 3

This course examines law enforcement in American society with a focus on empirical research and sociological and criminological theory. Students will review the historical development of policing in the United States, the roles of the police in contemporary society, the structure and responsibilities of law enforcement agencies in this country, and the interaction between institutional and individual aspects of police work. Students will also be exposed to research and theory on controversial issues in law enforcement, including the use of force, police deviance, the use of discretion, the impact of social inequality on enforcement, and policing in the mass media.

Fulfills the following degree requirement(s): CRIM - UD foundation, CRIM - Elective

Equivalent(s): CRIM 356

Prerequisite(s): CRIM 101 or SOCI 101

SOCI 357 Inequality, Crime and Urban Life credit(s): 3

This course examines the relationship between inequality and crime in America's inner cities. Students will consider how cultural, economic, educational, legal, political, and other factors shape life in urban areas, and how these factors reproduce crime and inequality in America's inner cities.

Fulfills the following degree requirement(s): CRIM - Elective, SOSJ - Block B

Equivalent(s): CRIM 357, SOSJ 325

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 358 Mass Incarceration credit(s): 3

This course examines the causes and consequences of mass incarceration in the United States from a sociological perspective. Particular attention will be paid to racial/ethnic and socioeconomic inequalities in imprisonment. The impact of mass incarceration on incarcerated individuals, their families, and society, more broadly will be examined. Spring.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): CRIM 358, SOSJ 330

SOCI 364 Drugs and Society credit(s): 3

This course will examine the effect that drugs, both legal and illegal, have on the legal justice system. Critical analysis, select lectures, in-class discussion, and writing will be the formats used to address issues such as the effect of the "war on drugs," the decriminalization debate, the relationship between drugs and violence, how drugs relate to law enforcement, sentencing, and corrections within the U.S. legal justice system, and the impact of drugs on individual users.

Equivalent(s): CRIM 364, HEAL 364

SOCI 366 Mass Trauma and Genocide credit(s): 3

This course investigates the relationship between multiple intersecting identities (including race, gender, religion, class) and mass trauma, genocide, and human suffering. We will explore a range of mass traumas in diverse cultural and political settings, primarily focusing on the twentieth century. Throughout the semester, the importance of collective memory will be brought to bear on the study of mass trauma and genocide. Fall, odd years.

Equivalent(s): CRIM 366

SOCI 378 Social Econ Development of Italy credit(s): 3

The impact of social theories on economic problems in Italy. The Mezzogiorno treated from the economic, sociological, political, and religious points of view. Florence campus only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 380 Global Social Change credit(s): 3

This course examines social change and its implications for individuals and groups at the local and global level, and offers sociological perspectives on the political, economic, and cultural processes of globalization throughout the world, including Asia, Latin America, North America, Africa and the Middle East. This course explores the historical development of global capitalism with a focus on the changing relationships between markets, states, and civil societies, and analyzes the forces that promote and resist these changes, including migration, state violence and social movements. Questions of power and inequality will be central to our approach, as we explore global social change through the lens of world-systems theory, neoliberalism, and neo-institutionalism. Offered every other year.

Fulfills the following degree requirement(s): BU - Marketing conc Req, SOSJ - Block C

Equivalent(s): SOSJ 345

SOCI 381 Politics and Society credit(s): 3

An empirical analysis of the major theories which attempt to describe the actual distribution of power in America. The course is primarily concerned with how power in societies is contested, given legitimacy, and sustained; it also examines political behavior of the public focusing on voting behavior.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 382 Population and Society credit(s): 3

There are more people on this planet than ever before, and the problems associated with population growth seem to be everywhere. Urban crowding, disease, poverty, ethnic tensions, refugees, illegal immigration, environmental degradation, unemployment, aging and the social security "crisis" are just a few of these troubles. This course introduces students to the study of population and demography to help them better understand these issues. After learning how to measure and analyze population characteristics and trends, students will explore the relationship between population changes and contemporary social and political issues in the developing regions of the world.

SOCI 383 Environmental Sociology **credit(s): 3**

This course examines human relationships with the natural environment. It explores how power structures, social norms, ideologies and politics affect our relationship and treatment of the environment.

Fulfills the following degree requirement(s): HEAL - Electives

Equivalent(s): ENVS 326, HEAL 383

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 384 Sociology of Religion **credit(s): 3**

This course studies works of classical and contemporary sociologists on the social and cultural aspects of religion. This course examines how religion is influenced by social conditions and often plays an important role in shaping society.

Fulfills the following degree requirement(s): RELI - Reli, Culture & Society

Equivalent(s): RELI 493

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 385 Law and Society **credit(s): 3**

The central question of this course is how do social policies that contribute to the common good come to be written into law in some times and places and not others? The course analyzes an array of political, economic, social, and cultural factors that combine to shape policy development. Case studies will include education, welfare, health care, the environment, and/or other policy domains.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Law

Equivalent(s): CRIM 385

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 388 Sociology of Education **credit(s): 3**

This course is a sociological analysis of American Schools and Schooling, with a particular focus on social inequality. The course will investigate how race, class, and gender shape student experiences and the policy efforts that have been (and could be) attempted to alleviate student inequalities. Throughout the course we will address the fundamental tension between the success of individuals and the collective good in education.

This is a CEL course where you will be accompanying elementary school children in their walk to school--leaving campus at 645 am, and not returning to campus until 830 am (transportation time included and transportation provided).

This means that you cannot register for a MWF 8 am course in the spring and take Sociology of Education, because you will not be back to Gonzaga in time.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOSJ 327

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 390 Feminist Thought **credit(s): 3**

Analyzes the contributions of feminist scholars to social and political theory and shows how feminist scholarship is transforming topics, methods, and goals. Reviews the major approaches to feminist theorizing and invites students to put these to work examining contemporary social and political issues.

Fulfills the following degree requirement(s): Women's & Gender Studies

Equivalent(s): WGST 401

Prerequisite(s): SOCI 244 or SOSJ 220 or WGST 201

SOCI 391 Directed Study **credit(s): 1-3**

Course repeatable for 12 credit.

Topic determined by instructor.

SOCI 395 Topics in Sociology **credit(s): 1-4**

Course repeatable for 9 credit.

Topic determined by instructor.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Criminology, Criminology, Sociology, Sociology, Solidarity and Social Justice

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 396 Topics in Sociology **credit(s): 1-4**

Course repeatable for 8 credit.

Topic determined by instructor.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 397 Topics in Sociology **credit(s): 1-4**

Course repeatable for 8 credit.

Topic determined by instructor.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 398 Topics in Sociology **credit(s): 3**

Topic determined by instructor.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 399 Topics in Sociology **credit(s): 3**
Course repeatable for 6 credit.
Topic determined by instructor.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOCI 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

SOCI 486 Seminar **credit(s): 1-3**

Topic determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 487 Seminar **credit(s): 1-3**

Course repeatable for 12 credit.

Topic determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 488 Seminar **credit(s): 1-3**

Course repeatable for 12 credit.

Topic determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 489 Seminar **credit(s): 1-3**

Course repeatable for 12 credit.

Topic determined by instructor.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 490 Directed Readings **credit(s): 1-3**

Course repeatable for 6 credit.

Supervised advanced reading in selected topics in sociology. Must obtain prior permission from Sociology Department Chair.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 494 Seminar in Research and Theory **credit(s): 1-3**

Course repeatable for 12 credit.

In this course, students design and execute original research projects, and present their findings to the public. Students must submit a proposal to the professor prior to being allowed to register for the course. Research experiences for undergraduates are well known as high-impact educational practices that carry with them a variety of benefits for students, faculty, and universities. Our program provides undergraduates with the opportunity to develop and conduct original social science research projects. Over the course of a full academic year, students achieve the following goals:

1. Develop a thorough understanding of the scholarship and sociological theory in their area(s) of interest.
2. Develop a research question that identifies a gap in the literature.

Restriction(s):

Must not be in the following Major(s):

Must be the following Class(es): Senior

SOCI 495 Independent Research Project **credit(s): 1-3**

Course repeatable for 3 credit.

Approved directed experience in sociological research proposed by the student.

Restriction(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

SOCI 496 Practicum in Sociology **credit(s): 1-3**

Course repeatable for 6 credit.

Supervised experience in a selected social agency. Credit by arrangement.

Restriction(s):

Must be in the following Major(s): Sociology

Must be the following Class(es): Senior

Prerequisite(s): SOCI 101

SOCI 497 Sociology Internship **credit(s): 0-6**

Course repeatable for 12 credit.

Practical experience working within a variety of settings related to the field of sociology.

Internships are individually arranged.

Restriction(s):

Must be the following Class(es): Junior, Senior

SOCI 498 Senior Honors Thesis **credit(s): 3**

Students with a 3.70 grade point average or above in their sociology courses who wish to be graduated with departmental honors in sociology, must enroll in this course in the semester prior to the semester in which they are graduated. Work is done under the direction of a faculty member from the department. The student must pass an oral examination of the thesis administered by the department. The thesis may be theoretical or based upon empirical research.

Restriction(s):

Must be the following Class(es): Senior

SOCI 499 Sociology Senior Capstone

credit(s): 3

This course offers Sociology majors the opportunity to review theories and research, and to consider how these might be useful for understanding current social issues. Required of all Sociology majors and fulfills comprehensive examination degree requirement.

Restriction(s):

Must be in the following Major(s): Sociology

Must be the following Class(es): Senior

Solidarity and Social Justice

Director: Andrea Bertotti Metoyer

The program offers one minor:

Minor in Solidarity and Social Justice

The Solidarity and Social Justice (SOSJ) minor strives to provide students with a thorough understanding of the range of ways that scholars, researchers, and students address injustices and engage in efforts to promote social justice in the contemporary world. The minor provides students with a strong foundation for understanding and researching justice issues from a variety of disciplinary perspectives and endeavors to inspire them to become "men and women for others," while also fostering the practical skills necessary for employment.

The curriculum enables students to blend the best of the liberal arts with courses designed for professional training to integrate themes of justice and peace into their academic, civic, and social pursuits. Special emphasis is placed upon the development of the habits of critical thinking and reflection, the skills of effective communication and leadership, as well as the acquisition of basic knowledge of the social sciences as they pertain to the areas of social justice, community building, social change, and human dignity.

Minor in Solidarity and Social Justice: 18 Credits

Required courses:

SOSJ 101 Introduction to Solidarity and Social Justice 3 credits

SOSJ 499 Solidarity and Social Justice Praxis 3 credits

Elective courses:

Block A: What is social justice and why does it matter? 3 credits

(Select from the following courses)

SOSJ 310/REL 377 Ethics, Human Rights, Globalization

SOSJ 311/RELI 333 Political Theology

SOSJ 410/PHIL 462 Theories of Solidarity and Social Justice

SOSJ 411/PHIL 463 Social Justice

SOSJ 412/PHIL 414 Ancient Concepts of Justice

SOSJ 119 Special Topics Block A

SOSJ 219 Special Topics Block A

SOSJ 319 Special Topics Block A

SOSJ 419 Special Topics Block A

Block B: What does social injustice look like and how does it happen?

3 credits

(Select from the following courses)

- SOSJ 220/SOCI 244 Sex, Gender, and Society
- SOSJ 221/SOCI 283 Sociology of Health and Medicine
- SOSJ 320/ECON 322 Work, Wages, and Inequality
- SOSJ 321/SOCI 323 Sociology of Race & Ethnicity
- SOSJ 322/SOCI 327 Social and Economic Inequalities
- SOSJ 323/SOCI 355 Elite and White Collar Deviance
- SOSJ 325/SOCI 357 Inequality, Crime, and Urban Life
- SOSJ 326/HIST 358 African-American History
- SOSJ 327/SOCI 388 Sociology of Education
- SOSJ 329/POLS 359 Third World Development
- SOSJ 330/SOCI 358 Mass incarceration
- SOSJ 139 Special Topics Block B
- SOSJ 239 Special Topics Block B
- SOSJ 339 Special Topics Block B
- SOSJ 439 Special Topics Block B

Block C: How does social change happen?

3 credits

(Select from the following courses)

- SOSJ 240/SOCI 200 Social Problems, Solutions and Social Change
- SOSJ 341/HIST 367 Civil Rights, Social Justice, & U.S. Citizenship
- SOSJ 342/POLS 322 Women and Politics
- SOSJ 343/POLS 326 Race and Ethnicity Politics
- SOSJ 344/SOCI 334 Social Movements
- SOSJ 345/SOCI 380 Global Social Change
- SOSJ 346/POLS 368 Tyranny to Democracy in the 21st Century
- SOSJ 347/HIST 351 Coming to America
- SOSJ 349 Capitalism Environment Justice
- SOSJ 348/RELI 334 Interreligious Dialogue
- SOSJ 159 Special Topics Block C
- SOSJ 259 Special Topics Block C
- SOSJ 359 Special Topics Block C
- SOSJ 459 Special Topics Block C

Block D: What skills do I need to promote social change?

3 credits

(Select 3 credits from the following courses)

- SOSJ 160/JOUR 110 Journalistic Writing
- SOSJ 170/VART 170 Photographic Art
- SOSJ 260/BRCO 203 Fundamentals of Television Production
- SOSJ 261/JOUR 270 Photojournalism
- SOSJ 262/JOUR 210 Civic Journalism
- SOSJ 263/COMM 285 Analyzing Practices and Habits
- SOSJ 360/ENGL 306 Writing in the Workplace
- SOSJ 363/COMM 331 Principles of Debate
- SOSJ 366/ENGL 309 Writing for Social Action

SOSJ 367/JOUR 370 Emerging Media
SOSJ 465/COMM 450 Justice and Arts of Civic Life
SOSJ 466/COMM 430 Intersectional Communication
SOSJ 475/HEAL 475 Community Organizing for Health Equity (1 credit)
SOSJ 179 Special Topics Block D
SOSJ 279 Special Topics Block D
SOSJ 379 Special Topics Block D
SOSJ 479 Special Topics Block D

(A maximum of six credits may be taken from any one department)

Notes: Some courses have pre-requisites that are not required for the minor. Take this into consideration when choosing courses.
Carefully check course attributes. Courses with the Social Justice designation are instructor-specific. Not all SOSJ courses carry the Social Justice designation.

Courses:

SOSJ 101 Introduction Solidarity and Social Justice credit(s): 3

This course provides an overview of social justice theories, causes and effects of structural injustice, and various examples of social change. Distinctions between charity and social justice are clarified and special attention is paid to the practice of solidarity. Fall.

Fulfills the following degree requirement(s): HEAL - Intro Soc Struct & Ineq, Core: Social Justice Restriction(s):

Must be the following Class(es): Freshman, Junior, Sophomore

SOSJ 119 Special Topics: Block A credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block A

SOSJ 139 Special Topics: Block B credit(s): 1-3

Course repeatable for 9 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block B

SOSJ 159 Special Topics: Block C credit(s): 1-3

Course repeatable for 9 credit.

To be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block C

SOSJ 160 Journalistic Writing credit(s): 3

An introduction to journalistic-style writing across media platforms, including broadcast journalism and public relations writing. Fall, Spring, Summer.

Fulfills the following degree requirement(s): SOSJ - Block D, Core: Writing Enriched Equivalent(s): JOUR 110

SOSJ 170 Photographic Art credit(s): 3

A survey of the role of photography in media and art as well as contemporary human experience. The course emphasizes creative control of digital cameras and an understanding of the principles of photography in creating images with technical and high aesthetic value.

Fulfills the following degree requirement(s): SOSJ - Block D, Core: Fine Arts and Design

Equivalent(s): VART 170

SOSJ 179 Special Top: Block D credit(s): 1-3

Course repeatable for 6 credit.

Topic to determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block D

SOSJ 180 Special Topics credit(s): 0-3

Course repeatable for 6 credit.

Topic to be determined by Instructor.

SOSJ 190 Directed Study credit(s): 0-6

Course repeatable for 12 credit.

Topic to be determined by instructor.

SOSJ 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

SOSJ 219 Special Topics Block A credit(s): 1-4

Course repeatable for 6 credit.

Fulfills the following degree requirement(s): SOSJ - Block A

SOSJ 220 Sex, Gender and Society credit(s): 3

Explores theories and research on the constructions of masculinity and femininity and how these influence our individual lives and social institutions.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOCI 244, WGST 201

SOSJ 221 Sociology of Health and Medicine credit(s): 3

This course examines the social context of health, illness and health care. Particular attention will be paid to the effects of culture and social inequality on health, the interaction of various health care professionals and political debates about the health care system.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): HEAL 201, SOCI 283, WGST 207

SOSJ 239 Special Topics Block B credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block B

SOSJ 240 Social Probs, Solutions, Change credit(s): 3

Course on the study of major social problems. Specifically, the course will demonstrate how sociology skills can be employed to bring about social change. Fall.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): SOCI 200

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 259 Special Topics Block C credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block C

SOSJ 260 Fundamentals of Television Production credit(s): 3

A practicum dealing with the technical aspects of television production along with creative generation of live, original programs. Students learn the basics of how television signals are created and transported, and then demonstrate proficiency in all crew areas concerned with live productions. In addition, this course provides a much greater sense of media literacy as it applies to mainstream messages in the media today. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): BRCO 203

SOSJ 260L Fund of Television Production Lab credit(s): 0

See SOSJ 260 for course description. Taken concurrently with SOSJ 260.

Equivalent(s): BRCO 203L

Corequisite(s): SOSJ 260

SOSJ 261 Photojournalism credit(s): 3

An introduction to the technical, ethical, and creative principles of journalism-based photography and video. Topics include basic camera functions, digital image-editing tools, and the intersection of photojournalism, digital-video, and short documentary filmmaking. Special attention will be given to the professional and ethical considerations of the practice and the unique differences that separate photojournalism from other forms of image capturing. Lab fee. Fall and Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): JOUR 270

Prerequisite(s): INMD 101

SOSJ 262 Civic Journalism credit(s): 3

Emphasis on the style of journalism that fosters community engagement. Research, reporting and interviewing techniques that focus on news coverage of public organizations and groups that participate in framing public policy. A variety of writing styles will be utilized. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): JOUR 210

Prerequisite(s): JOUR 110 or SOSJ 160

SOSJ 263 Analyzing Practices and Habits credit(s): 3

The course provides a foundation in attending to, analyzing, and reporting meaningful information about the social world through humanistic communication research methods. The course introduces ethnographic and qualitative research methods, ethics, selection of research

topics and questions, ethnographic data collection methods (e.g. participant observation; un-, semi- and structured interviewing; structured observation), managing and coding field notes, and qualitative analysis. In this course, students will create field notes, analyses, and more.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 285, HONS 263

Prerequisite(s): COMM 100 or HONS 100

SOSJ 279 Special Topics Block D **credit(s): 1-4**

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block D

SOSJ 280 Special Topics **credit(s): 0-3**

Course repeatable 2 time.

Topic to be determined by Instructor.

SOSJ 310 Ethics-Human Rights in Globalization **credit(s): 3**

This course focuses on religious and ethical responses to issues arising in relation to globalization, and specifically, the topic of human rights.

Fulfills the following degree requirement(s): RELI - Religious Ethics, SOSJ - Block A, Core: Global Studies

Equivalent(s): RELI 377

SOSJ 311 Political Theology **credit(s): 3**

This course presents an inquiry into the political shifts in religious faith and practice in the wake of globalization and modern secularism. Students will explore critiques of classic accounts of divine transcendence and religious authority, the growing recognition of the plight of the poor and marginalized, and the increasingly political focus of contemporary theologians and religious thinkers in response to this rapidly shifting intellectual milieu. Offered every year.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, SOSJ - Block A, Core: Christian or Catholic

Equivalent(s): RELI 333

SOSJ 319 Special Topics Block A **credit(s): 1-4**

Course repeatable for 6 credit.

Fulfills the following degree requirement(s): SOSJ - Block A

SOSJ 320 Work, Wages, and Inequality **credit(s): 3**

An economic perspective on labor market issues. Explores recent controversial topics such as inequality in earnings, race and sex discrimination in labor markets, immigration, minimum wage laws and labor unions, health and safety regulations in the work-place. Spring.

Fulfills the following degree requirement(s): SOSJ - Block B, Core: Social Justice

Equivalent(s): ECON 312, ECON 322

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ECON 201 or ECON 270H

SOSJ 321 Sociology of Race and Ethnicity credit(s): 3

This course will examine the foundations of race and ethnicity and how they inform constructions of difference in the past and present. Students will be introduced to definitions and theories of race and ethnicity, explore racial and ethnic identity, and analyze how race and ethnicity work in combination with other axes of difference such as gender, class, and nation to reproduce inequality.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOCI 323

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 322 Social and Economic Inequalities credit(s): 3

Examines the distribution of such social rewards as income, power, style of life, wealth, and prestige among members of a society. Also considers a variety of sociological explanations for the distribution of rewards; compares and contrasts stratification systems across societies. Fall, alternate years.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOCI 327

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 323 Elite and White Collar Deviance credit(s): 3

This course examines deviance and crimes committed by organizations and the rich and powerful. The nature, extent and societal effects of various types of elite and white collar deviance are examined.

Fulfills the following degree requirement(s): CRIM - Elective, CRIM - Social Behavior, SOSJ - Block B

Equivalent(s): CRIM 355, SOCI 355

Restriction(s):

Must be in the following Major(s): Criminal Justice, Criminology, Sociology

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 325 Inequality, Crime and Urban Life credit(s): 3

In this course, students will consider the problems of crime and inequality as intertwined. Students will also move beyond simplistic explanations of these problems and towards a more complex understanding of the relationships between social institutions - like criminal justice, economics, education, politics, and the media - and how these institutions collaborate (overtly and covertly) to reproduce crime and inequality in America's inner cities. Spring.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): CRIM 357, SOCI 357

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 326 African-American History credit(s): 3

This course explores the lives and experiences of African-Americans from the colonial era to the present. It focuses on communities, values, and traditions of redress that sustained these

citizens, workers, parents, children, and activists.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication West, SOSJ - Block B

Equivalent(s): HIST 358

SOSJ 327 Sociology of Education credit(s): 3

This course is a sociological analysis of American Schools and Schooling, with a particular focus on social inequality. The course will investigate how race, class, and gender shape student experiences and the policy efforts that have been (and could be) attempted to alleviate student inequalities. Throughout the course we will address the fundamental tension between the success of individuals and the collective good in education.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): SOCI 388

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Fulfills the following degree requirement(s): SOSJ - Block B, Core: Social/Behavioral Sci

Equivalent(s): WGST 303

SOSJ 329 Third World Development credit(s): 3

Focus on political development in the Third World. After examining the making of the Third World through imperialism and colonialism, analyzes key political institutions (the state, political parties, the military), the international economic context of dependency and vulnerability. Several case studies follow a common analytical framework to trace experiences with democratic and authoritarian rule and assess the underlying causes of democratic success and failure.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): INST 310, POLS 359

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 330 Mass Incarceration credit(s): 3

This course examines the causes and consequences of mass incarceration in the United States from a sociological perspective. Particular attention will be paid to racial/ethnic and socioeconomic inequalities in imprisonment. The impact of mass incarceration on incarcerated individuals, their families, and society, more broadly will be examined. Spring.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): CRIM 358, SOCI 358

SOSJ 339 Special Topics Block B credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block B

SOSJ 341 Rights Justice and US Citizenship credit(s): 3

This course explores the history of citizenship in the United States from its founding in the Revolutionary era to the present by examining how and why the rights and obligations of citizenship have changed over time. This seminar style course includes discussions of philosophical and theoretical frameworks involved in building and in understanding citizenship including reform efforts that aspired to democratize institutions that treated citizens differently

because of race, ethnicity, class, national origin, or gender. This course is geared towards students interested in history, law, politics, ethnic studies, women's studies, and social movements.

Fulfills the following degree requirement(s): HIST - Race&Ethnic Communication West, SOSJ - Block C

Equivalent(s): HIST 367

Prerequisite(s): HIST 102 or HIST 112

SOSJ 342 Women and Politics credit(s): 3

History and dynamics of women's political movements (both conservative and liberal) in the U.S. Survey of women's current levels and styles of participation in U.S. government and politics. Offered annually.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): POLS 322, WGST 340

SOSJ 343 Race and Ethnicity Politics credit(s): 3

Examines the conditions facing selected racial and ethnic groups in the U.S., with African Americans being the primary case for analysis. Topics include the social construction of race and ethnicity, the wide range of political strategies and tactics employed by racial and ethnic groups in pursuit of equality, and U.S. immigration policy. Offered annually.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): POLS 326

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 344 Social Movements credit(s): 3

Social movements are often characterized by the spontaneous development of new norms and social organization that may contradict, reinterpret and/or challenge existing social arrangements. The purpose of this course is to examine social movement behavior, and their role in promoting social change and social justice.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): SOCI 334

SOSJ 345 Global Social Change credit(s): 3

This course examines social change and its implications for individuals and groups at the local and global level, and offers sociological perspectives on the political, economic, and cultural processes of globalization throughout the world, including Asia, Latin America, North America, Africa and the Middle East. This course explores the historical development of global capitalism with a focus on the changing relationships between markets, states, and civil societies and analyzes the forces that promote and resist these changes including migration, state violence, and social movements. Questions of power and inequality will be central to our approach, as we explore global social change through the lens of world-systems theory, neoliberalism, and neo-institutionalism. Offered every other year.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): SOCI 380

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 346 Tyranny to Democracy 21 Century credit(s): 3

Between 1974 and 2000 more than fifty countries in Southern Europe, Latin America, East Asia, and Eastern Europe shifted from authoritarian to democratic systems of government. This course examines the causes and nature of these democratic transitions and investigates several case studies of democratic transitions in different areas of the world; in order to understand the factors responsible for the democratic trend and to ascertain which key variables best explain completed democratic transitions and democratic consolidation. Spring, alternate years.

Fulfills the following degree requirement(s): SOSJ - Block C

Equivalent(s): INST 392, POLS 368

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

SOSJ 348 Interreligious Dialogue credit(s): 3

Fulfills the following degree requirement(s): RELI - Practical Theology, SOSJ - Block C, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): INST 304, INST 365, RELI 334

SOSJ 349 Capitalism Environment Justice credit(s): 3

This course examines how capitalism structures human relationships and impacts the nonhuman world, creating uneven social and environmental benefits and burdens. Students will draw upon a range of critical perspectives, including political economy, political ecology, feminist theory, critical race theory, indigenous and post-colonial epistemology, critical geography, science studies, environmental justice, and other approaches. Resistance and social movement responses is emphasized.

Equivalent(s): SOCI 349

SOSJ 359 Special Topics Block C credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block C

Restriction(s):

Must be in the following Major(s): Criminology, Criminology, Sociology, Sociology, Solidarity and Social Justice

SOSJ 363 Argumentation and Debate credit(s): 3

Examination of the fundamentals of advocacy including argumentation theory, techniques of persuasion, refutation, and cross-examination. This course is open to both debate team members and anyone interested in improving their argumentation skills.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 331

SOSJ 366 Writing for Social Action credit(s): 3

In this course, we will approach writing for social action from a rhetorical perspective, focusing on purpose and audience as well as genre, form, and the craft of writing. Throughout the semester, you will be asked to analyze texts produced by contemporary and historical social

movements and activists in order to discern best practices when advocating for a cause.

Fulfills the following degree requirement(s): ENGL - Writing, SOSJ - Block D, Core: Writing Enriched

Equivalent(s): ENGL 309

Prerequisite(s): ENGL 101 or ENGL 200

SOSJ 367 Emerging Media

credit(s): 3

Students integrate reporting and research with audio, video, photos and text to produce and design multimedia packages in a journalistic context. Students may utilize blogging, podcasting, social media and emerging media techniques. Some focus on analysis of the optimal platforms for presenting journalistic content. Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): JOUR 370

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): JOUR 110 or SOSJ 160

SOSJ 379 Special Topics Block D

credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block D

SOSJ 380 Special Topics

credit(s): 0-3

Course repeatable for 12 credit.

SOSJ 410 Theories Solidarity and Social Justice

credit(s): 3

This course is designed to fulfill one of the requirements of the Solidarity and Social Justice minor. It builds on the background provided by other courses in the SOSJ minor and the University Core by focusing more explicitly on the role public reason plays in the pursuit of solidarity and social justice. The course will ask "What is justice and how is it related to human solidarity? How do we ground claims about solidarity and social justice through an appeal to reason? What role should reason play in shaping our models of justice and what role can it play in the promotion of solidarity and social justice?"

Fulfills the following degree requirement(s): PHIL - Ethics or Political, SOSJ - Block A, Core: Core Integration Seminar

Equivalent(s): PHIL 408, PHIL 462

Restriction(s):

Must be in the following Major(s): Solidarity and Social Justice

Prerequisite(s): PHIL 201

SOSJ 412 Ancient Concepts of Justice

credit(s): 3

Many modern theories of social justice rest upon models developed in classical antiquity. Similarly, many modern institutions and laws relating to justice have ancient precursors. This course examines major classical texts dealing with justice: selected pre-Socratic texts; Plato, Republic; Thucydides, History of Peloponnesian war, Aristotle, Nicomachean Ethics, Book V,

selections from Cicero; selections from other Hellenistic and late Roman authors (including Augustine).

Fulfills the following degree requirement(s): CLAS - Elective course, CLAS - Greek course, CLAS - Rome course, PHIL - Ethics or Political, SOSJ - Block A

Equivalent(s): PHIL 414, PHIL 481

Prerequisite(s): PHIL 201

SOSJ 419 Special Topics Block A

credit(s): 1-3

Course repeatable 3 time.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block A

SOSJ 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

SOSJ 439 Special Topics Block B

credit(s): 1-3

Course repeatable 3 time.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block B

Restriction(s):

Must not be the following Class(es): Junior, Senior

SOSJ 459 Special Topics Block C

credit(s): 1-3

Course repeatable 3 time.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): SOSJ - Block C

SOSJ 464 Communication and Leadership

credit(s): 3

A critical examination of the reciprocity between effective communication and successful leadership. Includes a historical examination of leadership styles, theories, and research. Includes an analysis of motivation, power, and organizational culture, with writing and speaking assignments designed to cultivate leadership skills. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 401

Restriction(s):

Must be the following Class(es): Junior, Senior

SOSJ 465 Justice and Arts of Civic Life

credit(s): 3

Ethical communication and intentional civic engagement fosters vibrant democratic life. As civic actors, we deliberate and contest policies, advocate for justice, and attempt to foster

cooperation among a multiplicity of voices. This course synthesizes theories of ethics that students grapple with to examine relationships between rhetoric, democracy, and justice. Specifically, we will address questions of how we should practice rhetoric in ways that refine our capacities for ethical discernment, build inclusive communities, promote social justice, and ultimately enrich democratic life. Spring.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 450

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 340, minimum grade: C

SOSJ 466 Intersectional Communication **credit(s): 3**

The study of communication and culture in a global world cannot and must not be apolitical, ahistorical, or blind to the messy entanglements of power and privilege. Therefore, this course will focus on the intersections between critical race theory, feminist theory, and critical intercultural communication in order to interrogate and examine the ways in which our social identities and locations affect the contexts of our lives including our opportunities, relationships, and overall understanding of the world. Specifically, this course will engage the work of Black Feminist scholars and ongoing scholarly conversations on intersectionality to analyze intercultural encounters and engagement. Fall.

Fulfills the following degree requirement(s): SOSJ - Block D

Equivalent(s): COMM 430, INST 430

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): COMM 320, minimum grade: C or COMM 340, minimum grade: C or COMM 370, minimum grade: C

SOSJ 475 Organizing for Health Equity **credit(s): 1**

The Community Organizing for Health Equity course facilitates learning of community organizing skills through participatory exercises, discussion, and short lectures. The course provides a foundation from which to understand the world through a different lens needed to work on “upstream” issues. The course will equip student leaders with the tools they need to organize themselves and others to more effectively address the social justice issues that matter most to them.

Fulfills the following degree requirement(s): HEAL - Experiential, SOSJ - Block D

Equivalent(s): HEAL 475

SOSJ 479 Special Topics Block D **credit(s): 1-3**

Course repeatable 3 time.

Topic to be determined by instructor.

Fulfills the following degree requirement(s): HEAL - Experiential, SOSJ - Block D

SOSJ 480 Special Topic **credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be determined by instructor.

SOSJ 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

Practical experience working within a variety of settings related to the fields of solidarity and social justice. Internships are individually arranged.

SOSJ 499 Solidarity and Social Justice Praxis

credit(s): 3

Students taking this capstone course will participate in a semester-long internship for a justice-oriented organization. As a "praxis" course, the goal is for students to combine action with reflection and understanding. Students will meet weekly to reflect on their practical internship experience and integrate empirical and theoretical information.

Fulfills the following degree requirement(s): HEAL - Experiential

Restriction(s):

Must be in the following Major(s): Health Equity, Solidarity and Social Justice

Theatre Arts

Chairpersons:

Theatre: Leslie Stamooolis

Dance: Suzanne Ostersmith

Program Director-Theatre Arts: Leslie Stamooolis

Program Director - Dance: Suzanne Ostersmith

Professors: K. Jeffs, , C. Pepiton,

Associate Professors: S. Ostersmith L. Stamooolis

Lecturers: B. Edwards, P. Erickson

Adjuncts: C. DuVall, K. Heide, P. Male, C. Monte

The department offers two majors and three minors:

Bachelor of Arts, Theatre Arts major

(required concentration in either Performance or Design, Technology, and Management [DTM])

Bachelor of Arts, Dance major

(required concentration in either Dance Pedagogy or Performance)

Minor in Theatre Arts

Minor in Interdisciplinary Arts

Minor in Dance

Since the earliest human civilizations, theatre and dance have been integral to the fabric of human communication. The process of performance is woven into personal, community, business, artistic, and religious life - and into the dialogue among the cultures and nations of the world.

Critical examination of this process describes, interprets, and evaluates these relationships. As faculty in the Department of Theatre & Dance, we seek to assist students in becoming effective, creative, and ethically responsible communicators who can understand theoretical choices and design, express, interpret, and critically evaluate oral, written, nonverbal, and electronically mediated messages.

Theatre & Dance, as an academic discipline, draws upon the humanities, the social and natural sciences, and the professions. The curriculum is both conceptual and applied. Courses prepare for an in-depth exploration of one or more areas of inquiry. Teaching and learning methods combine lectures, seminars, workshops, production, and performance. Theatre & Dance at Gonzaga reflects the Jesuit, Catholic, Humanistic character and liberal arts tradition of the institution.

Mission Statement

The Theatre & Dance Department at Gonzaga University is committed to training and developing artists who confront the important issues of our lives through their engagement with the art forms of live theatre and dance.

Students study and critically reflect on a broad range of literature, theatrical forms, and techniques in order to promote an active engagement with the foundations of our culture and to promote the formation of a character that reflects the faith and justice mission of Gonzaga University. The intended outcome of this study and reflection is to provide service to our audience and the broader community and to promote the pursuit for social justice.

Our purpose is to serve young artists hoping to apply disciplined training and thoughtful work to search for justice and the greater good of those around them.

Students interested in a minor that combines the strengths of theatre, dance, visual arts, and music should visit the Interdisciplinary Arts page for more information about the Interdisciplinary Arts Minor.

Master of Arts in Communication and Leadership Studies (COML) and Master of Arts in Organizational Leadership (ORGL) Graduate Pathways Program:

Majors interested in pursuing a Master of Arts in Communication and Leadership Studies (COML) or a Master of Arts in Organizational Leadership (ORGL) may apply to the graduate program at the end of the academic year immediately preceding their final year of undergraduate study. Those who meet the COML or ORGL admissions standards will be granted provisional acceptance. During their final year of undergraduate study, these students will be able to enroll in up to six graduate-level COML or ORGL credits in addition to their undergraduate course load, with no additional or separate charge for graduate credits. "Graduate Pathway" students will be limited to a maximum of 18 credits per semester, including graduate credits, in each of the two semesters of their final year of undergraduate study.

B.A. Major in Theatre Arts: 44-49 credits

Lower Division

THEA 111 Acting I	4 credits
THEA 200 Theatre History	3 credits
THEA 202 Performance Text Analysis	3 credits
THEA 216 Acting II	4 credits
THEA 235 Design Process	3 credits

THEA 253 Directing I	3 credits
THEA 260 Production Lab	2 credits
THEA 261 Performance Lab	2 credits
Two of the following six courses:	6-7 credits
THEA 132 Stagecraft	
THEA 134 Costume Construction	
THEA 237 Costume and Fashion Design	
THEA 239 Lighting Design	
THEA 287 Allied Arts	
THEA 332 Scenic Design	
Minimum of two credits from the following courses:	2 credits
THEA 120 Voice and Movement	
DANC 115 Ballet I	
DANC 105 Jazz Dance I	
DANC 110 Contemporary Modern Dance I	
DANC 280 Topics in Dance	
DANC 215 Ballet II	
DANC 205 Jazz Dance II	
DANC 300 Musical Theatre Dance	
THEA 323 Urban Dance	
Upper Division	
THEA 354 Directing II	3 credits
THEA 497 Internship	1-3 credits
THEA 498 Senior Project I	1 credit
THEA 499 Senior Project II	1 credit
Students must select one of two concentrations:	8-9 credits
Performance or Design, Technology, & Management	
<i>Performance concentration:</i>	9 credits
Two of the following three courses:	
THEA 240 Theatre for Young Audiences	3 credits
THEA 280 Shakespeare in Performance	3 credits
THEA 316 Acting for the Camera	4 credits
Two (2) credits from the following courses:	2 credits
THEA 261 Performance Lab	
THEA 490-THEA 494 Directed Studies	

<i>Design, Technology, & Management (DTM) concentration:</i>	8-9 credits
One of the following five courses:	3 credits
THEA 134 Costume Construction	
THEA 237 Costume and Fashion Design	
THEA 239 Lighting Design	
THEA 287 Allied Arts	
THEA 332 Scenic Design	
One of the following courses:	3-4 credits
BRCO 204/BRCO 204L Audio Production	
BRCO 303 Intermediate Television Production	
Two (2) credits from the following courses:	2 credits
THEA 260 Production Lab	
THEA 490-494 Directed Studies	

Minor in Theatre Arts: 20-21 credits

Lower Division

THEA 100 Introduction to Theatre Arts	3 credits
THEA 111 Acting I	4 credits
One of the following three courses:	3-4 credits
THEA 132 Stagecraft	
THEA 134 Costume Construction	
THEA 237 Costume and Fashion Design	
THEA 200 Theatre History	3 credits
THEA 235 Design Process	3 credits
THEA 261 Performance Lab	1 credit

Upper Division

One of the following three courses:	3 credits
THEA 240 Theatre for Young Audiences	
THEA 253 Directing I	
THEA 332 Scenic Design	

Courses:

THEA 100 Introduction to Theatre Arts **credit(s): 3**

An introductory survey of the history, aesthetics, and literature of the theatre, and the various areas of theatrical production. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

THEA 102 Dance: Culture and Art **credit(s): 3**

Introduces dance as a social form present in all cultures and as an art form composed for the stage. This course provides the necessary skills and understanding for an appreciation of the social, physical, and artistic qualities of dance through various cultures. Somatic learning of social/ballroom dance forms is paired with cognitive and emotional understanding of the

countries and cultures from which they were derived. Students will also study the concepts of leading and following, the transition from social to concert dance as a global phenomenon, and gain an understanding of dance from a global perspective.

Fulfills the following degree requirement(s): Core: Fine Arts and Design, Core: Global Studies

THEA 111 Acting I **credit(s): 4**

An introduction to the techniques of dramatic expression utilizing the body, voice, and imagination. Structured play exercise helps the beginner to overcome physical/vocal inhibitions, and develop a sense of trust and teamwork within the group. Scene work is approached using beats, intentions, scores of physical actions, obstacles, and subtext. The class concludes with a recital to provide practical experience in rehearsal and performance. Fall and Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Equivalent(s): FILM 160

THEA 120 Voice and Movement **credit(s): 3**

An introduction to expressively engaging the entire physical instrument in life and performance. Coursework focuses on a variety of techniques designed to develop an increased range of physical and vocal expression. The course features experimentation in a studio setting and practical/creative application through rehearsal and performance. Fall, odd years.

THEA 130 Topics in Dance **credit(s): 1-3**

Course repeatable for 6 credit.

Advanced courses, visiting artists, cultural dance. Periodic offering.

THEA 132 Stagecraft **credit(s): 4**

The theory and practice of the construction and painting of scenery and props, the fundamentals of stage lighting, and the organization of technical work in the theatre. Includes a lab component. Fall.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Equivalent(s): THEA 232

THEA 134 Costume Construction **credit(s): 3**

In this class we will seek to understand the overall breadth of the field, with an introduction to its areas of specialization; beginning stitching, patterning, and crafting techniques, and individual contributions to the work of the Gonzaga Costume Shop, as well as a personal construction project. Fall.

THEA 190 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

THEA 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course

highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

THEA 200 Theatre History

credit(s): 3

A study of the theatre as an expression of life and culture from a primitive ritual to the 21st century. Theatre literature, performance practice, and theatre architecture will be studied within the larger context of the culture from which the various types of theatrical expression are derived. Fall, odd years.

Fulfills the following degree requirement(s): Core: Fine Arts and Design, Core: Writing Enriched

THEA 202 Performance Text Analysis

credit(s): 3

This course will provide students with the necessary tools to create, and support other students in the creation of, critical analyses of plays and productions. Through textbook readings designed to provide students with access to the creative process, published play readings engineered to highlight successful analytical lenses and practices, and exercises devised to tap into different modes of creative generation, students discover multiple methodologies for performance text analysis. Students learn to give and receive effective feedback. By the end of the semester, students complete several full performance text analyses and contribute directly to the making of a live performance.

Fulfills the following degree requirement(s): Core: Writing Enriched

THEA 216 Acting II

credit(s): 4

An intensive study of the acting process building on skills developed in Acting I (THEA 111). The course focuses on character development in psychological realism and other modern forms and is intended to expand the actor's range with both scene and monologue work, as well as to expand skills in voice/body integration and script analysis. Spring.

Prerequisite(s): THEA 111

THEA 222 E-Portfolio

credit(s): 0

Course repeatable 12 time.

Taken each fall of sophomore and junior years, Interdisciplinary Arts Minor students submit work from the year before into an e-portfolio format. This is reviewed by the Director and the student in a scheduled meeting, reviewing ideas for their senior synthesis project and ensuring they are on track with coursework.

THEA 224 Contemporary Modern Dance I

credit(s): 2

Course repeatable for 8 credit.

Analysis and theory of modern dance with an emphasis on basic technique and movement exploration. Includes a study of the evolution of modern dance and its past and present pioneers. Fall.

Equivalent(s): DANC 110

THEA 235 Design Process

credit(s): 3

Fundamentals of the process of designing for the theatre - developing the design from the initial script study through the collaborative process in design meetings. Learning how to "see" and developing points of view and approaches are studied. The course also covers the business

of design, working in regional theatres and other professional venues. Fall, even years.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture, Core: Fine Arts and Design

Equivalent(s): FILM 260

THEA 237 Costume and Fashion Design **credit(s): 3**

Examine the role of costume design in the performance storytelling process for stage and fashion. Utilizing classic design principles and tools, including color theory and artistic media, we explore turning texts into visual images through script analysis, character interpretation, use of historical dress, and artistic inspirations. Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

THEA 239 Lighting Design **credit(s): 3**

An introduction to the technical procedures, equipment, organization, drafting, and design principles of theatrical lighting. Students will design and execute lighting for main stage productions. Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

THEA 240 Theatre for Young Audiences **credit(s): 3**

An introduction to the artistic, pedagogical, and entrepreneurial methods for producing theatre for (and with) young audiences. Coursework features practical rehearsal and performance, a survey of major Theatre for Young Audience plays, applied theatre techniques, and curriculum development. This class is intended for students seeking to become teachers (inside and outside of theatre arts classrooms) and those interested in performing for K-12 audiences. Spring, even years.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

THEA 253 Directing I **credit(s): 3**

The fundamental techniques of play analysis, actor communication, and composition are introduced and applied to model plays. Organizational, leadership, and conceptual skills are developed as students audition, cast, and rehearse chosen scenes from the modern realistic repertoire for performance. Fall.

Equivalent(s): FILM 360, THEA 453

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): THEA 111

THEA 260 Production Lab **credit(s): 1**

Course repeatable for 20 credit.

Introductory level participation in one or more phases of the design, technology, and management (DTM) production process (set construction, costume construction, lighting, sound, etc.) Spring and Fall.

THEA 261 Performance Lab **credit(s): 1**

Course repeatable for 20 credit.

Performance of a role in a main stage theatre production. Spring and Fall.

THEA 280 Shakespeare in Performance **credit(s): 3**

An introductory study of contemporary acting methods used to perform Shakespeare's plays. Emphasis is placed on balancing Elizabethan language and staging conventions with today's psychological realism. The course focuses on character development, physical and vocal

techniques for the actor, use of verse and prose, delivery of soliloquies, and script analysis. Students engage with both scene and monologue work. The course is intended to expand the actor's range as well as the reader's understanding of Shakespeare's work for the live stage.

THEA 287 Allied Arts **credit(s): 3**

The goal of the artist in a theatrical production is simple: to make the audience believe. To that end, it is the responsibility of the scenic artist to create the illusion that rough plywood surfaces are in fact brick walls, or that a masonite floor is instead a cobblestone walkway. This class explores scenic painting techniques, foam carving, and specialty prop design. Topics include the role of the scenic artist in the production process. Additional emphasis placed on faux painting techniques and trompe l'oeil painting. This is an intermediate studio course exploring the techniques and processes of scenic painting and crafts that encompass skills necessary for theatre and theatre production projects. Tools, materials and painting techniques will be demonstrated by the instructor and explored and executed by the student. Scenic painting does not arrive from your imagination alone. Research into surfaces and light will be necessary to apply the skills of painting.

THEA 290 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be determined by faculty.

THEA 293 Special Topics **credit(s): 1-4**

Course repeatable for 8 credit.

Topic to be determined by Instructor.

THEA 294 Special Topics **credit(s): 1-3**

for 6 credit.

Topic to be determined by Instructor.

THEA 316 Acting For The Camera **credit(s): 4**

With experience of basic acting techniques in hand, the student actor works in front of the camera to meet the challenges of electronic media. Simplicity of presentation, performance of the authentic person, and active listening are key skills. Work is in a variety of forms, from feature films to public service announcements. The class concludes with a public showing of student work. Periodic offering.

Fulfills the following degree requirement(s): FILM - Film Elective, FILM - Film & Prod Culture
Equivalent(s): FILM 361

Prerequisite(s): THEA 111

THEA 332 Scenic Design **credit(s): 3**

Theory and application of the process used to design theatrical scenery. Students begin to develop and apply skills in script analysis, theatre drafting, model building, collage, and research techniques with the intent to design scenery for live theatre performance. Fall, odd years.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

THEA 354 Directing II **credit(s): 3**

With a foundation in conceptualization, play analysis, actor communication, and design, student directors will create a vision for a short play. Student directors cast their shows and

collaborate with a design team to realize the production in a public performance. Emphasis is placed on building conceptually rich, unified productions and the development of an individual creative voice. Spring.

Prerequisite(s): THEA 253

THEA 390 Directed Study

credit(s): 1-4

Course repeatable for 6 credit.

Topic to be determined by faculty.

THEA 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

THEA 440 Playwriting

credit(s): 3

Designed to provide students with the necessary tools to create dramatic texts for reading and performance. Through play reading assignments and exercises devised to tap into different modes of creative generation, students discover methodologies for developing new work. Students hear their work read by actors in a 10-minute play festival. By the end of the semester, students complete a short one-act play. Fall, even years.

Fulfills the following degree requirement(s): ENGL - Writing

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

THEA 480 Theatre Seminar

credit(s): 1-4

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission from Department Chair required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

THEA 481 Theatre Seminar

credit(s): 1-3

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission from Department Chair required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 482 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission from Department Chair required.

Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 483 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 484 Theatre Seminar **credit(s): 1**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 485 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 486 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 487 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 488 Theatre Seminar **credit(s): 1-3**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Pre-requisite: permission of instructor. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 489 Theatre Seminar **credit(s): 1-6**

Course repeatable for 6 credit.

Intensive study of a particular aspect of theatre. Permission of instructor required. Upon sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

THEA 490 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Students will take leadership in one of the following areas of applied theatrical production: stage management, lighting design, scenic design, sound design, costume design or directing.

THEA 491 Directed Study **credit(s): 1-2**

Course repeatable for 6 credit.

Students will take leadership in one of the following areas of applied theatrical production: stage management, lighting design, scenic design, sound design, costume design or directing.

THEA 492 Directed Study **credit(s): 1-3**

Students will take leadership in one of the following areas of applied theatrical production: stage management, lighting design, scenic design, sound design, costume design or directing.

THEA 493 Directed Study **credit(s): 1-2**

Students will take leadership in one of the following areas of applied theatrical production: stage management, lighting design, scenic design, sound design, costume design, or directing.

THEA 494 Directed Study **credit(s): 1-2**

Course repeatable for 6 credit.

Students will take leadership in one of the following areas of applied theatrical production: stage management, lighting design, scenic design, sound design, costume design or directing.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

THEA 497 Internship **credit(s): 1-3**

Course repeatable for 9 credit.

Professional work experience in theatre related field. Fall, Spring, and Summer.

THEA 498 Senior Project I **credit(s): 1**

A career preparation and individual artistic development experience in a cohort and mentorship setting. Students will engage in self-initiated as well as guided exercises to prepare for life and career after graduation. Development of senior project, to be completed in THEA 499 in the spring. Fall.

THEA 499 Senior Project II **credit(s): 1**

A continuation of THEA 498 with more emphasis placed on implementing a senior project in partial fulfillment of the department's major requirements. Spring.

Prerequisite(s): THEA 498, minimum grade: D

Visual Literacy

Program Director: Matt McCormick

The program offers one minor:

Minor in Visual Literacy

The Visual Literacy minor focuses on an interdisciplinary approach to studying photographic and video arts, photojournalism, and documentary film. The minor gives students models for thinking critically about the interpretation and impact of images in society and artistic creation, and the evolving role of video in online news and social media. The curriculum integrates experiential learning with the theories and ethics of artistic and journalistic visual creation.

Minor in Visual Literacy: 18-20 credits

Lower Division

INMD 101 Media Literacy 3 credits

Two of the following options: 6 credits

VART 112 Digital Art Foundations ⁽¹⁾

VART 170 Photographic Art⁽¹⁾

JOUR 270 Photojournalism

VART 272 Intro to Filmmaking

JOUR 280 Design and Editing

Upper Division

Three of the following options: 9-11 credits

BRCO 320 Image Communications

VART 371 Art Fusion

JOUR 374 Documentary History and Analysis

VART 408 History of Photography

JOUR 470 Documentary Filmmaking

VART 472 Creative Filmmaking

See the Undergraduate Catalog department sections for individual course descriptions.

(1) Students majoring or minoring in Journalism must take VART 170 or VART 112.

*Note: Students using JOUR 470 and/or BRCO 320 to satisfy the Visual Literacy minor requirements, may not also use the courses for an upper-division BRCO, JOUR or PRLS elective course required for Broadcast & Electronic Media Studies, Journalism, or Public Relations majors and minors.

Women, Gender, and Sexuality Studies

Chair: Sara Diaz

Associate Professors: S. Diaz, N. Rodriguez-Coss

Lecturer: A. Dame-Griff

The department offers one major and one minor:

Major in Women, Gender, and Sexuality Studies

Minor in Women, Gender, and Sexuality Studies

Gonzaga's Women, Gender, and Sexuality Studies Department is an inter- and multi-disciplinary program that employs critical feminist theories and methodologies to foster transformative understanding of the intersections of gender, race, ethnicity, sexuality, and class among other socially defined identities. Using gender as a central analytic, we examine and question systems of power, inequality, and injustice and their role in shaping lived experiences of persons, locally, nationally, and transnationally. We foster an ethical and intellectual commitment to dismantle sexism, heterosexism, and other dimensions of intersecting oppressions such as racism and classism. Our faculty empower students to imagine a more just future and equip them with the tools to collectively enact it.

Women, Gender, and Sexuality Studies offers stand-alone interdisciplinary courses and cross-listed elective courses in many different disciplines (Sociology, English, Philosophy, History, and many others). Faculty members trained in feminist scholarship and pedagogy teach WGST courses, and they seek to create a community of learners in which both professors and students take responsibility for the educational experience. Many courses use projects that invite students to put their knowledge to practical use solving problems, promoting social justice, lifting up the poor and vulnerable or otherwise serving the common good.

Students studying WGST learn about a host of gender-based social inequalities as well as the history of feminist movements for justice. In particular, students will develop their ability to think critically, intersectionally, and transnationally about gender and power in relation to both theory and practice. The skills developed in WGST coursework are applicable to many careers. Gonzaga WGST graduates work in business, education, journalism, government, international development, law, public relations, social services, and research. WGST graduates have also entered graduate programs in art history, counseling, critical race and ethnic studies, literature, media studies, political science, social work, sociology, theology and women's and gender studies.

The department offers a thirty-three credit major in Women, Gender and Sexuality Studies which consists of a sequence of five, three-credit required courses, including a capstone. To encourage students to self-direct their study, elective options making up the remaining 18 credits may be chosen from our large list of cross-listed and standalone courses. With the

exception of your theory course, a maximum of nine credits may be taken in any one discipline outside of WGST.

The department also offers a twenty-one credit minor in Women, Gender, and Sexuality Studies. There are three required standalone courses. The remaining 12 credits may be chosen from our large list of cross-listed and standalone courses. With the exception of your theory course, a maximum of nine credits may be taken in any one discipline outside of WGST.

Major in Women, Gender, and Sexuality Studies: 33 credits	
Lower Division	
WGST100 Intro to WGST	3 credits
WGST 200 Gender, Difference, & Power	3 credits
Upper Division	
WGST 300 Feminism & Intersectionality	3 credits
<i>One of the following Theory courses:</i>	3 credits
WGST 401 Feminist Political Thought	
WGST 402 Feminist Genealogies	
WGST 403 Crit Theory: Lit & Ctr'l Stdy	
<i>Electives*</i>	18 credits
WGST 499Capstone	3 credits

*6 other 3 credit elective WGST classes (standalone or cross-listed) of the student's choice. With the exception of your theory course, a maximum of nine credits may be taken in any one discipline outside of WGST.

Minor in Women, Gender, and Sexuality Studies: 21 credits

Lower Division	
WGST 100 Introduction to Women, Gender, and Sexuality Studies	3 credits
200 or 300-level required course	
<i>Select one of the following two courses</i>	3 credits
WGST 200 Gender, Difference, and Power	
WGST 300 Feminism & Intersectionality	
Theory Course	
<i>Select one of the following theory courses:</i>	3 credits
WGST 401 Feminist Political Thought	
WGST 402 Feminist Genealogies	
WGST 403 Crit Theory: Lit & Ctr'l Stdy	
<i>Electives^</i>	12 credits

^4 other 3 cr. elective WGST classes (standalone OR cross-listed) of the student's choice. With the exception of your theory course, a maximum of nine credits may be taken in any one discipline outside of WGST.

Courses:**WGST 100 Introduction to WGST credit(s): 3**

This course introduces students to key concepts and foundational research that shapes the interdisciplinary study of women, gender, and sexuality in the contemporary moment. Students will use an intersectional lens to explore the social construction of gender and sexuality, hegemonic gender norms, and feminist movements.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Social/Behavioral Sci, Women's & Gender Studies

WGST 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar, Women's & Gender Studies

Restriction(s):

Must be the following Class(es): Freshman

WGST 200 Gender, Difference and Power credit(s): 3

In this course students will learn about how feminist interdisciplinary scholars study the construction and practice of gender in various contexts, with an emphasis on the intersections of gender, race, class, sexuality, nation, and disability. Students will deepen their knowledge of basic women, gender, and sexuality studies concepts and theories, and issues of interest in relation to family life, work, sexuality, health, militarism, immigration, globalization, the environment, and social change.

Fulfills the following degree requirement(s): Core: Social Justice, Women's & Gender Studies

Equivalent(s): WGST 202

WGST 205 Gender and Pop Culture credit(s): 3

In the digital media age popular culture saturates many aspects of everyday life. This course is a critical examination of the ways popular culture generates and shapes images of gender, race/-ethnicity, class, and sexuality. In order to understand how popular cultural shapes understandings of and attitudes towards gender, the course will pay special attention to the ways femininity and masculinity are represented and contested in multiple forms of commercial media and independent popular culture including music, film, television, print media, video games, news, sports, social media, and various "objects" of material culture, such as food, toys, and clothing. The course uses cultural studies methods to examine the production, meanings, and social uses of popular culture by multiple communities in local and global contexts.

Fulfills the following degree requirement(s): Core: Social Justice

WGST 219 Introduction to Literature **credit(s): 3**

This course introduces student to literacy study through the exploration of gender in the major genres of literature (poetry, fiction, and drama).

Fulfills the following degree requirement(s): Core: Literature, Women's & Gender Studies

Equivalent(s): ENGL 102

WGST 220 Studies in Literature and Gender **credit(s): 3**

This course examines gender issues in various literary texts. Course may focus on only one genre or may include several genres.

Fulfills the following degree requirement(s): Core: Literature

Equivalent(s): ENGL 202

WGST 222 Multicultural Literature **credit(s): 3**

This course introduces students to the diverse nature of multicultural literature while helping them develop increasingly complex understandings of the continually evolving issues connected to national and international discourses on race and ethnicity, as well as gender and sexuality. We explore the ways in which literature contributes to the definition and redefinition of individual and collective identities from multiple perspectives.

WGST 251 Fem Interpretation of Hebrew Bible **credit(s): 3**

This course introduces students to the Hebrew Bible with special attention given to texts dealing with women.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Christian or Catholic

Equivalent(s): RELI 203

WGST 252 Feminism and Christianity **credit(s): 3**

An introduction to the academic discipline of Christian theology, and the way in which the Christian community makes believing possible and meaningful for contemporary people of faith. Particular attention is given to the impact of feminist scholarship on the doing of Christian theology. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Christian or Catholic, Women's & Gender Studies

Equivalent(s): RELI 234

WGST 255 Women in Catholicism **credit(s): 3**

The focus of this course is to examine the identity and mission of the church as an institution and a community of faith emerging from Vatican Council II. Feminist theology will provide the lens for examining the role of women in the church in both historical and contemporary situations.

Fulfills the following degree requirement(s): RELI - Systematic Theology

Equivalent(s): RELI 231

WGST 260 Sex, Gender, and Society **credit(s): 3**

This course is an introduction to the sociological study of gender. From the moment of birth (and sometimes even before birth) gender shapes how people are treated. Gender structures the experiences of people in all major social institutions, including the family, the workplace, and schools. Yet gender is so taken for granted as a basis for differences among people that it can be difficult to see the underlying social structures and cultural forces that reinforce or weaken the social boundaries that define gender. A sociological view of gender emphasizes how gender is socially constructed and how structural constraints limit choice. Thus, this course

examines how differences based on gender are created and sustained; gendered experiences on campus and at work; and the relationship between gender, power, and social inequality. We will pay particular attention to how other important bases of personal identity and social inequality—race and class—interact with patterns of gender relations.

Fulfills the following degree requirement(s): SOSJ - Block B, Women's & Gender Studies

Equivalent(s): SOCI 244

WGST 261 Sociology of Health and Medicine

credit(s): 3

This course examines the social context of health, illness and health care. Particular attention will be paid to the effects of culture and social inequality on health, the interaction of various health care professionals, and political debates about the health care system.

Fulfills the following degree requirement(s): SOSJ - Block B

Equivalent(s): HEAL 201, SOCI 283, SOSJ 221

WGST 280 Special Topics

credit(s): 1-3

Course repeatable for 12 credits.

Topic to be determined by faculty.

Fulfills the following degree requirement(s): Women's & Gender Studies

WGST 300 Feminism and Intersectionality

credit(s): 3

In this course students will learn about how the feminist framework of intersectionality is employed within the fields of Women, Gender, and Sexuality Studies to study a wide range of issues in the context of US imperialism. Specifically, students will study the interlocking nature of systems of oppression, including but not limited to racism, classism, and sexism, by applying intersectionality to the study of identities, institutions, and ideologies from a transnational feminist perspective.

Pre-requisites: ANY 100 or 200 level WGST course, or by instructor permission.

Prerequisite(s): WGST 100-299, 1 course

WGST 304 Feminism and Science

credit(s): 3

This course is an introduction to the interdisciplinary field of Feminist Science and Technology Studies. Students will learn what the field of FSTS has to say about various social justice issues, such as equity for women in science, the history of the science of human difference, how human values shape science in action for better or worse, and what feminism has to offer the scientific endeavor. The course will explore a series of interrelated questions: How do scientific understandings of human difference (gender, race, sexuality, etc.) shape who participates in science, historically and in the present moment? What is the relationship between politics, culture, and science? What are some of the experiences of women and other minoritized people in science fields? How have the sciences been used to perpetuate injustice (war, environment, unethical human subjects, research)? Can the sciences be used to advance social justice? How can feminism shape the culture and practice of science? And, what do the sciences have to offer feminist thought?

Fulfills the following degree requirement(s): Core: Writing Enriched, Women's & Gender Studies

Equivalent(s): HEAL 304

Prerequisite(s): WGST 100-299, 1 course

WGST 305 Transnational Feminisms credit(s): 3

This course explores key feminist debates from a global perspective focusing on collaborations and activist efforts across geographical and cultural borders. We will examine how those collaborations work to eradicate a variety of social inequalities targeting women and other historically marginalized groups. Among the issues to be discussed are reproductive rights, feminicides, sex trafficking, armed conflicts, and environmental protection.

Fulfills the following degree requirement(s): Core: Global Studies, Writing Enriched, Women's & Gender Studies

Prerequisite(s): WGST 100-299, 1 course

WGST 327 Shakespeare credit(s): 3

Selected plays and poetry.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): ENGL 330

WGST 330 Women in U.S. History credit(s): 3

This course explores the history of American women from the colonial era to the present using a women and gender studies framework. The class investigates gender roles and the ways that race, class, politics, national origin, colonization, and the passage of time alter those expectations. This seminar style course investigates women's economic and political lives and social contributions through suffrage, reform, civil rights, feminism, and more.

Equivalent(s): HIST 363

WGST 331 Women in Colonial Latin Amer credit(s): 3

This course will investigate the lives of women in both the pre-contact and post-conquest societies. The first part of the course concentrates on the activities of women, and their role in society, among the Aztecs, Inca, and Pueblo civilizations. The course will follow with the study of their experiences after the Spanish Conquest. The final section of the course will cover the variety of women, ranging from wealthy Spanish women, established nuns, marginal mystics, Indian leaders, and African women, and their experiences in the Spanish colonies. Students will learn about and discuss the various gender systems which operated in different periods, and how these systems shaped women's lives as women shaped the systems themselves.

Fulfills the following degree requirement(s): HEAL - Electives, HIST - Latin American History

Equivalent(s): HIST 384

WGST 340 Gender, Sexuality, and Politics credit(s): 3

Investigates the roles of gender and sexuality in American politics through examination of the wide array of goals, strategies, and tactics embraced by women and LGBTQ+ political movements as well as the agendas and actions of women and LGBTQ+ governmental actors. Special attention is paid to recognizing and understanding gender and sexuality-based distinctions in political participation, opinion formation, electoral success and representation. Spring semesters.

Equivalent(s): POLS 322, SOSJ 342

Restriction(s): Must be the following Class(es): Junior, Senior, Sophomore

WGST 342 Global Gender Regimes **credit(s): 3**

Compares the lives of women around the world; their public and private roles and responsibilities, positions in government, the economy, and the private sphere. This course seeks to explain women's status differences in various regions and societies by looking at the influence of culture, religion, economics, and politics.

Fulfills the following degree requirement(s): Women's & Gender Studies

Equivalent(s): INST 326, POLS 363

Restriction(s): Must be the following Class(es): Junior, Senior, Sophomore

WGST 343 Constitutional Law, Civil Liberty, and Rights **credit(s): 3**

A case-based examination of Supreme Court decisions treating aspects of the Bill of Rights and the Fourteenth Amendment. These decisions cover topics such as freedom of speech, freedom of press, religious freedoms, the right to privacy, and questions of discrimination in its many forms including racial, sexual, and voting rights.

Equivalent(s): POLS 303

Restriction(s): Must be the following Class(es): Junior, Senior, Sophomore

WGST 344 American Social Policy **credit(s): 3**

This course examines the origins, patterns, reforms, and criticisms of American social policy. Consideration of ties between knowledge and social policy, and the particular impact of education, health care, and welfare policies on women, children, different racial and ethnic groups, and the middle class. A review of normative claims for the proper role of the state and capitalism, as well as comparisons with other western, capitalist societies and their policy regimes. Upon sufficient demand.

Fulfills the following degree requirement(s): BU - LPP conc Req

Equivalent(s): POLS 327

Restriction(s): Must be the following Class(es): Junior, Senior, Sophomore

WGST 350 Women Artists **credit(s): 3**

An introduction to women as creators of fine and decorative art within North America and Europe from the late 18th C. to today. The course also addresses how women have been represented in art by men and other women.

Fulfills the following degree requirement(s): VART - History, Core: Fine Arts and Design

Equivalent(s): VART 407

WGST 352 Psychology of Gender **credit(s): 3**

A review of both the theory and empirical literature investigating the psychology of gender (including biological cognitive, developmental, and psychosocial models).

Equivalent(s): PSYC 416

Prerequisite(s): PSYC 100 and PSYC 202 and PSYC 206

WGST 353 Christian Sexual Ethics **credit(s): 3**

Explore Christian perspectives on the ethical dimensions of human sexuality and issues of gender. Offered every semester.

Fulfills the following degree requirement(s): HEAL - Electives, RELI - Religious Ethics, Core: Ethics

Equivalent(s): RELI 376

WGST 354 Women in the Jewish Tradition credit(s): 3

This course examines the role of women in the sacred texts of the Jewish tradition. Particular attention is given to the legal status of women, complex issues of identity, tradition, and family, and the geographic diversity of Judaism in history and today. Offered every other semester.

Fulfills the following degree requirement(s): RELI - Theology & Spirituality, Core: Global Studies, Core: World or Comparative Rel, Core: Writing Enriched

Equivalent(s): RELI 328

WGST 360 Sociology of Family credit(s): 3

Examines images and practices of family life in American society. Uses historical material to show how ideals about family life have developed. Discusses definitions of "family" as political, with a special emphasis on the politics of gender. Connects debates over how to define and understand family with decisions about social policies.

Equivalent(s): SOCI 342

WGST 380 Special Topics credit(s): 1-3

Course repeatable for 9 credits.

Topic to be determined by instructor.

WGST 390 Independent Study credit(s): 0-6

Course repeatable for 6 credits.

Supervised reading in one of the previously mentioned areas of study, not to replace existing courses but to provide an opportunity for advanced study not available within the regular curriculum. Directed reading requires completion of a form, WGST Department Chair permission, and cannot be registered for via Zagweb.

WGST 401 Feminist Political Thought credit(s): 3

Analyzes several varieties of feminist theory to explore how conceptions of women, gender and feminism have changed and have structured women's opportunities to participate fully in politics and the economy. Central questions include: the nature of sex/gender and sex/gender difference; what is feminism; who identifies as a feminist; and how gender identities are mediated by our class, race, and ethnic identities. Meets WGST Feminist Theory Requirement. Fall.

Fulfills the following degree requirement(s): POLS - Political Thought

Equivalent(s): POLS 341

Prerequisite(s): WGST 200 or WGST 300

WGST 402 Feminist Genealogies credit(s): 3

This course focuses on feminist and queer theories produced by and centered on historically marginalized communities by gender, race, sexuality, class, ability, citizenship, and location categories. The theories are purposely selected to explore genealogical analyses of power, transnational activism, and decolonial knowledge, among other themes. An overview of the development and foundational approaches to feminist and queer theorizing explored in this course allows students to apply these theories to contemporary issues and experiences. Prerequisites: WGST 200 OR WGST 300

Fulfills the following degree requirement(s): Core: Writing Enriched, Women's & Gender Studies

Prerequisite(s): WGST 200 or WGST 300

WGST 403 Critical Theory: Literature and Cultural Study credit(s): 3

This course examines various theories for interpreting literature and culture.

Fulfills the following degree requirement(s): ENGL - Major Elective require

Equivalent(s): ENGL 480

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

WGST 417 Tudor and Stuart Drama credit(s): 3

Focuses on the varied dramatic traditions of Tudor and Stuart London besides Shakespeare.

This is a period in which questions about gender roles were being openly debated, and in which literary and otherwise discursive interrogations of social roles, particularly the role of women, pervaded genres but were most vivid on stage.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): ENGL 434

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

WGST 419 Renaissance Literature credit(s): 3

A study of the literature of the English Early Modern period ranging from More to Milton and including the emerging literary voice of women writers. British literature covering the period 1500-1700, excluding drama.

Fulfills the following degree requirement(s): ENGL - Literature pre- 1660

Equivalent(s): ENGL 331

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

WGST 432 Core Integration Seminar credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

WGST 434 Philosophy of Sex and Gender credit(s): 3

Analyzes the concepts of sex, sexuality, and gender by working with authors across traditions and disciplines. We will be particularly concerned with the role of sex, sexuality, and gender may have on identity formation/subversion, questioning whether some or all of these concepts are essential/natural or socially constructed.

Fulfills the following degree requirement(s): PHIL - Contemporary

Equivalent(s): PHIL 442

Prerequisite(s): PHIL 201

WGST 435 Feminist Ethics **credit(s): 3**

Explores women's experiences of oppression and some of the ways in which this has marginalized their concerns and their perceptions of the moral dimension. Feminist contributions to re-thinking the concept of moral agency, the traditionally sharp distinction between the public and private domains, the relevance of personal relationships to ethics, and the process of moral development and moral decision-making are considered. Spring, odd years.

Fulfills the following degree requirement(s): PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 456

Prerequisite(s): PHIL 201

WGST 460 Studies in Women Writers **credit(s): 3**

Course repeatable for 9 credit.

This course provides an in-depth study of literary works written by women. May cover a variety of genres, time periods, and cultures or may be genre, period, or culture specific.

Fulfills the following degree requirement(s): ENGL - Major Elective require

Equivalent(s): ENGL 460

Prerequisite(s): ENGL 101 and (CLAS 220 or ENGL102 or ENGL 105 or ENGL 106 or ENGL 200-299, excluding 250 or WGST 219 or WGST 222)

WGST 480 Special Topics **credit(s): 3**

Course repeatable for 18 credits.6 times.

WGST 490 Directed Reading **credit(s): 1-3**

Course repeatable for 12 credits.

Supervised reading in one of the previously mentioned areas of study, not to replace existing courses but to provide an opportunity for advanced study not available within the regular curriculum. Directed reading requires completion of a form, WGST Department Chair permission, and cannot be registered for via Zagweb.

WGST 491 Directed Study-Women's Study **credit(s): 1-3**

Course repeatable for 12 credits.

Specialized research into a topic of feminist scholarship. Directed study requires completion of a form, WGST Department Chair permission, and cannot be registered for via Zagweb.

Prerequisite(s): (WGST 201 or WGST 202) and WGST 401(WOMS 201

WGST 497 Women and Gender Studies Internship **credit(s): 0-6**

Course repeatable for 6 credits.

Opportunities to work as an intern with various agencies that assist women in Spokane.

Students must take the initiative to contact an agency and a faculty supervisor. Students meet with a member of the Women, Gender, and Sexuality Studies faculty to discuss their experiences and write a paper integrating their internship experience with their WGST coursework. Fall and Spring.

WGST 499 Capstone **credit(s): 3**

The capstone course in the women's studies concentration provides an opportunity for a special kind of faculty and student conversation. Responsibility for organizing and structuring this course will rotate among women's studies faculty. Topics will vary. Regardless of the texts or topics, the goal will be to create a conversation in which students assume significant

responsibilities. All students are expected to complete a major research project using the concepts and perspectives of feminist scholarship, and to present their work to the class and faculty evaluators. Spring only.

Prerequisite(s): WGST 300, minimum grade: D(and WGST 401, minimum grade: D (or concurrent) or WGST 402, minimum grade: D (or concurrent) or POLS 341, minimum grade: D (or concurrent) or WGST 403, minimum grade: D (or concurrent) or ENGL 480, minimum grade: D (or concurrent)

School of Business Administration

Dean: Kenneth Anderson

Associate Dean for Undergraduate Programs: Sara Kern

Coordinator of Accounting: M. Hoag

Director of Graduate Accounting: A. Brajcich

Director of MBA Programs: R. Bull Schaefer

Director of Hogan Entrepreneurial Leadership Program: D. Stewart

John L. Aram Chair of Business Ethics: B. Steverson

Jud Regis Endowed Chair of Accounting: A. Brajcich

Erwin Graue Professor of Economics: K. Henrickson

Mozillo Professor of Finance: D. Xu

Pigott Professor of Entrepreneurship: T. Finkle

Kinsey M. Robinson Professor of Business Administration: G. Weber

Professors: K. Anderson, C. Barnes (Dean Emeritus), G. Barone, R. Bennett, M. Beqiri, A. Brajcich, S. Bozman, R. Bull Schaefer, T. Chuang, K. Henrickson, E. Johnson, S. Kern, L. Kurpis, D. Law, P. Loro, M. McPherson, V. Patil, M. Pepper, B. Steverson, D. Stewart, D. Xu, G. Weber

Professors Emeriti: J. Beck, R. Bennett, D. Brajcich, E. Birrer, P. Buller, K. Carnes, N. Chase, C. Chen, D. Elloy, J. Helgeson, K. Hickman, J. Monks, M. Shrader, W. Teets, W. Terpening

Associate Professors: Y. Awotoye, J. Correia, T. Finkle, R. Herzog, M. Hoag, C. McNellis, J. Morscheck, T. Olsen, C. Stevens, M. Tackett, A. Thatte, R. Vann, A. Voy, Y. Zhang

Assistant Professors: K. Carlston, K. Kim, S. Xiao, M. Zavala

Senior Lecturer: C. DeHart, A. Leithauser

Lecturers: J. LaBelle

The School of Business was established in 1921 and is accredited by AACSB International - The Association to Advance Collegiate Schools of Business. As stated in its Mission, the School “strives to develop professionally competent graduates who exemplify the humanistic, ethical, and moral values of a Jesuit institution. A personal learning environment, quality students, and a faculty dedicated to teaching and advising, scholarship, and service will mark our excellence. As part of a dynamic business environment, we will strengthen relationships with the regional, national, international and scholarly communities.” To support the mission of the School of Business, the learning objectives of the programs prepare students to:

- - apply fundamental business theories and practices to any organization;
- - analyze challenges and opportunities critically and arrive at a best solution;
- - understand diverse perspectives and the global reach of business decisions;
- - communicate ideas and information effectively;
- - approach decision-making ethically and with a commitment to the common good; and
- - adapt readily to the changing demands of a high-technology market.

Degree Requirements of the School of Business Administration

In addition to the general degree requirements of the University, including the University Core curriculum, students earning the Bachelor of Business Administration degree must complete the following requirements:

- I. Completion of the SBA common curriculum consisting of:
 - a. Mathematics (3-4 credits): MATH 114, MATH 148, or MATH 157
 - b. Business Computing (2 credits): BUSN 111
 - c. Accounting (6 credits): ACCT 260 and ACCT 261
 - d. Economics (6 credits): ECON 201 and ECON 202
 - e. Business Statistics (3 credits): BUSN 230 or MATH 321
 - f. Information Systems (3 credits): BMIS 235
 - g. Business Law (3 credits): BUSN 283
 - h. Finance (3 credits): BFIN 320
 - i. Management (3 credits): MGMT 350
 - j. Marketing (3 credits): MKTG 310
 - k. Operations Management (3 credits): OPER 340
 - l. Business Ethics (3 credits): BUSN 480
 1. also fulfills the following core requirements
 1. Core Integration Seminar
 2. Social Justice
 - m. Strategy (3 credits) BUSN 481
- II. Completion of the requirements for a major course of study within the School;
- III. A minimum 2.00 grade point average in the following six lower division business core courses: ACCT 260-ACCT 261 (Principles of Accounting I and II), BUSN 230 or MATH 321 (Statistics), BMIS 235 (Management Information Systems), and ECON 201-ECON 202 (Microeconomics and Macroeconomics) with a grade no lower than C- in any of the six classes.
- IV. Completion of upper-division major and minor requirements with a minimum cumulative grade point average of 2.00 in those courses. The majority of the required upper-division major, minor, and concentration credits must be from Gonzaga.
- V. At least 50 percent of all business courses (common curriculum and major requirements) must be taken at Gonzaga

Please note: Courses which fulfill business common curriculum, major, concentration, and minor requirements may not be taken on a satisfactory/non-satisfactory basis except for internships.

Table of Credits for Degree Majors and Minors

B.B.A. Majors

1. Accounting (21 credits)
2. Business Administration (18-21 credits)
(The Business Administration major includes one of the following 12 or 15 credit concentrations)*
 1. Business Analytics
 2. Economics
 3. Entrepreneurship and Innovation
 4. Finance
 5. Human Resource Management
 6. Marketing
 7. Management Information Systems
 8. Operations and Supply Chain Management
 9. Interdisciplinary Concentrations
 1. International Business
 2. Law and Public Policy
 3. Individualized Study

* Specific course requirements for each concentration are listed in the appropriate sections in the following pages.

B.A. Major

1. Economics

B.S. Major

1. Economics

Minors for all majors, including Business and Accounting:

Digital Marketing	24 credits
Economics	18 credits
Sustainable Business Minor	26 credits

Minors for Non-Business Majors:

Analytical Finance	27-28 credits
Entrepreneurship and Innovation	18 credits
General Business	24 credits
Management Information Systems	17 credits
Promotion	18 credits
Engineering Technologies	21 credits
Human Resource Management	18 credits

Major Programs of Study in Business

The degree of Bachelor of Business Administration (B.B.A.) is offered with a major in accounting or a major in business administration.

The accounting major requires completion of 21 credits, as described in the accounting section of this catalog.

The business administration major requires completion of 18-21 upper division credits including:

1. Twelve to fifteen credits from a designated concentration. Requirements of concentrations in economics, entrepreneurship and innovation, finance, human resource management, management information systems, marketing, and operations and supply chain management are described in the respective sections of this catalog. Also offered are interdisciplinary concentrations in international business, and law and public policy. Students may also design an interdisciplinary individualized concentration with the approval of a faculty advisor. A second concentration in the School of Business may be earned by completing 12 to 15 credits required in the area. Only one course may be double-counted between two concentrations in all but the international business concentration, where no double counting is allowed. International business is only available as a second concentration.
2. Three to six credits chosen from among the categories of Broadening, International, or Experiential (only one course in a category may be used).

Students with a Single Concentration: Students will take a Broadening course and either an International or Experiential course. Note: The requirement applies to all concentrations, regardless of whether those concentrations require a course outside the discipline, e.g., ACCT 367 for the Finance concentration, or even outside the SBA, e.g., certain nonbusiness courses for Marketing.

Students with Two or More Concentrations (or a concentration in business plus an accounting major): Students will take either an International or Experiential course. Exception: Students with an International Business concentration will take an Experiential course or a 200-level or higher foreign language course.

Broadening course: A 3-credit upper division course in business outside a student's concentration(s). A Broadening course provides students an opportunity to pursue interests in a discipline outside their concentration(s) and, if desired, to complete coursework that complements their respective concentrations (e.g., BMIS 443 "Technology for Web and Mobile-based Business" for students in Marketing; ACCT 363 "Cost Accounting" for students in Operations and Supply Chain Management). Note that the broadening course cannot be double-counted with the International or Experiential Course requirement for the business major.

International course. These classes are designated in Zagweb with the "BU-International" attribute.

Experiential course. These classes are designated in Zagweb with the "BU-Experiential" attribute. A student may also complete an internship (either during the academic year or during the summer) to fulfill the experiential requirement (see the Student Internships section below).

3. A course taken to fulfill a concentration requirement may not be double-counted to satisfy a requirement in the Broadening, International, or Experiential area for the Business Administration major.

Students in the School of Business may also earn minors from other areas of the University. No more than six (6) credits of courses taken to satisfy requirements of minors may be double-counted to satisfy the requirements of majors and concentrations in the School of Business.

The B.B.A. is also offered with an Honors designation. Interested students should contact the director of the Honors Program.

Student Internships

An internship program is available to eligible juniors and seniors in the School of Business. In an academic internship, a student collaborates with an organization to learn business knowledge and skills in a professional environment. There are several steps students must take before participating in an academic internship. Internships are not awarded retroactively. Students must receive approval for internship credits before internship hours are started. Internship guidelines are available on the School of Business website.

Pre-Law Students

Students who intend to pursue the study of law are encouraged to enroll in business courses that will provide a solid understanding of the integral relationship between law and business.

Core courses such as Principles of Accounting I and II (ACCT 260 and ACCT 261), Microeconomics and Macroeconomics (ECON 201 and ECON 202), are recommended for pre-law students with majors outside the School of Business. Accounting provides basic skills to prepare and analyze financial statements and to complete case analysis; economics gives an understanding of how economics affects government fiscal policies, international trade, labor and other resource markets, political decisions, etc.

In addition, a pre-law student in the School of Business will benefit from courses in the law and public policy concentration. This concentration includes various courses which address legal issues such as corporate taxation, regulation of securities trading, business ethics, mergers and acquisitions, and antitrust policy and regulation. All of these courses provide pre-law students a unique insight into how business functions within the framework of the legal system.

Validation of Transfer Courses

Transfer students who take lower division courses at another AACSB-accredited institution equivalent to required upper division business courses at Gonzaga must have those courses validated by the transfer advisor.

Accounting

The accounting major is designed to enable students to develop an understanding of, and proficiency in, accounting concepts and techniques. Building on the principles of accounting, students study financial reporting, auditing, taxation, income determination, account valuation, accounting systems, and the role of accounting in the allocation and use of resources. The program offers several career options leading to employment in business, government, and public accounting.

CPA Certificate Track

To sit for the CPA examination, Washington State requires candidates to obtain 150 semester credit hours of acceptable educational preparation. Gonzaga offers three degrees tailored for students who desire to fulfill the 150-hour requirement and earn a graduate degree at the same time: Master of Accountancy (MAcc), Master of Science in Taxation (MSTax), and Master of Science in Business Analytics (MSBA) with a concentration in accounting. A student pursuing this track will, during the junior, senior, and graduate years, acquire the technical competence in the 300-level and 400-level accounting courses, while more fully developing research, communication, and presentation skills offered in graduate classes. A student planning to obtain both undergraduate and graduate degrees should work closely with a faculty advisor for proper course sequencing.

Gonzaga's accounting majors are eligible to apply for the Accelerated M.Acc or Accelerated MS.Tax program. If accepted into the program, nine credit hours of graduate-level courses may be taken during the senior year with the permission of the accounting program coordinator. The cost of the graduate credits is covered by the student's undergraduate tuition so long as the student does not exceed the maximum credit load. Before applying for admission to the accelerated M.Acc, a student should have completed ACCT 360, Intermediate Financial Accounting I. Before applying for admission to the Accelerated MS.Tax, a student should have completed ACCT 365, Federal Taxation I.

Non-CPA Track

A student who does not wish to obtain CPA certification can earn the B.B.A. degree in accounting. With this degree, a student might find employment opportunities in governmental agencies, financial institutions, and industrial firms such as Boeing or Avista. The student pursuing this track is encouraged to obtain an accounting major accompanied by elective course work in information systems. Both the Certified Internal Auditor (CIA) and Certified Managerial Accountant (CMA) designations are available to students with this degree.

B.B.A. Major in Accounting: 21 credits

Upper Division

ACCT 311 Data Analysis for Accountants	3 credits
ACCT 360 Intermediate Financial Accounting I	3 credits
ACCT 361 Intermediate Financial Accounting II	3 credits
ACCT 363 Cost Accounting	3 credits
ACCT 365 Federal Taxation I	3 credits
ACCT 464 Auditing	3 credits
<i>One of the Following Electives:</i>	3 credits
ACCT 362 Accounting Information Systems	
ACCT 366 Federal Taxation	
ACCT 460 Advanced Financial Accounting	

Courses:

ACCT 260 Principles of Accounting I **credit(s): 3**

Introduction to financial accounting with emphasis on the preparation and analysis of basic financial statements of business organizations. Fall, Spring, Summer.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

ACCT 261 Principles of Accounting II **credit(s): 3**

An introduction to managerial and cost accounting concepts and techniques. Topics include cost determination and the uses of cost data for managerial planning, control, and decision-making. Fall, Spring, Summer.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ACCT 260

ACCT 263 Accounting Analysis **credit(s): 3**

An accounting foundation course for non-business majors pursuing a general business minor or planning to apply for admission to graduate business programs. The course introduces the student to accounting and emphasizes preparation, analysis, and interpretation of general purpose financial reports and uses of accounting information for decision-making.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s): Accounting, Business Administration

Must be the following Class(es): Junior, Senior, Sophomore

ACCT 290 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be decided by faculty.

ACCT 311 Data Analysis for Accountants **credit(s): 3**

A study of the role of big data and data science and analytics in business. The course includes coverage of the theory and practice of data visualization, statistical methods, analytical models,

and an introduction to software tools and programming languages to facilitate the analysis of data.

Restrictions:

Prerequisite(s): ACCT 260 and ACCT 261 and BMIS 235

ACCT 360 Interm Financial Accounting I **credit(s): 3**

An intensive study of financial accounting theory and practice. Topics include recognition, measurement, and reporting of assets, liabilities, corporate equity, revenues and expenses; preparation and analysis of the principal financial statements.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accountancy, Accounting, Business Administration

Must be the following Class(es): Sophomore, Junior, Senior

Prerequisite(s): ACCT 260 and ACCT 261

ACCT 361 Interm Financial Accounting II **credit(s): 3**

Continuation of ACCT 360.

Fulfills the following degree requirement(s): Foundation - Graduate Business

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accountancy, Accounting, Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): ACCT 360, minimum grade: C (or concurrent)

ACCT 362 Accounting Information Systems **credit(s): 3**

A study of the role of accounting information systems in organizational decision making and control. The course includes coverage of the theory and practice of information processing, internal controls, and systems analysis and design related to major transaction cycles.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting

Must be the following Class(es): Sophomore, Junior, Senior

Prerequisite(s): ACCT 260 and BMIS 235

ACCT 363 Cost Accounting **credit(s): 3**

An examination of the mechanics and application of accounting principles and concepts for planning, control, and decision making. Topics include cost behavior, job, process, and standard cost systems; budgeting and control; and activity-based costing.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting

Must be the following Class(es): Junior, Senior

Prerequisite(s): ACCT 261

ACCT 365 Federal Taxation I **credit(s): 3**

Fundamentals of federal taxation with emphasis on individual taxation and tax planning. Topics include income, deductions, losses, and credits in addition to capital asset and other property transactions.

Fulfills the following degree requirement(s): BU - LPP conc Req

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Graduate, Junior, Senior

Prerequisite(s): ACCT 260

ACCT 366 Federal Taxation II **credit(s): 3**

A study of corporate, partnership, estate and gift, and international taxation is conducted in this course. Current issues in taxation relating to both business and individual taxation will be discussed, along with an examination of tax procedure and tax practice.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting

Must be the following Class(es): Junior, Senior

Prerequisite(s): ACCT 365, minimum grade: C

ACCT 367 Financial Reporting and Analysis **credit(s): 3**

Corporate financial accounting theory, practice, and analysis for students pursuing a concentration in finance. Topics include generally accepted accounting principles; concepts of revenue and expense recognition; measurement of assets, liabilities, and equities; and analysis of corporate financial statements. Course credits may not be applied to the accounting major.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must not be in the following Major(s): Must be in the following Major(s): Finance

Prerequisite(s): ACCT 260 and BFIN 320

ACCT 460 Advanced Financial Accounting **credit(s): 3**

Advanced topics in financial accounting, theory and practice. Subjects include inter-corporate investments, consolidated financial statements, international accounting, partnerships, and accounting for governmental and NFP entities.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting

Must be the following Class(es): Junior, Senior

Prerequisite(s): ACCT 360 and ACCT 361

ACCT 464 Auditing **credit(s): 3**

A study of auditing concepts and practices. Includes audit planning and procedures, , ethical considerations, and report writing.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accountancy, Accounting, Business Administration

Must be the following Class(es): Graduate, Junior, Post-Bacc, Senior

Prerequisite(s): ACCT 360

ACCT 471 Forensic Accounting Lab **credit(s): 3**

Called the "Justice for Fraud Victims Project", this class is a joint program with members of the community (law enforcement, prosecutors, and local certified fraud examiners), that provides a select group of students with an opportunity to investigate real cases of suspected fraud that are referred by local law enforcement. Students are assigned to teams and are supervised by faculty and by mentors from the Spokane Chapter of the Association of Certified Fraud Examiners. The cases are selected based on financial need of the victim (primarily local small businesses and non-profit organizations). Student teams must complete a written forensic accounting report on their case, an internal control recommendation report for the client, and a formal presentation to law enforcement outlining their results. Enrollment is by application only. May not be counted toward the required accounting elective.

ACCT 489 Special Topic Seminar **credit(s): 1-3**

On sufficient demand.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting

Must be the following Class(es): Senior

Prerequisite(s):

ACCT 491 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Directed Study requires completion of a form, and department permission. Zagweb registration is not available. Available Summer only

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting

Must be the following Class(es): Junior, Senior

ACCT 497 Internship **credit(s): 0-3**

Accounting internships may not be counted towards the required accounting elective.

Internships require departmental approval and 3.00 GPA. Zagweb registration is not available.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting

Must be the following Class(es): Junior, Senior

Business Career Success Series Courses

The Business Career Success Series provides a program of one credit weekend courses under the School of Business Administration's three values of Excel, Engage, and Inspire. These classes have three goals:

1. Emphasize skills such as negotiations, personal finances, and communication.
2. Engage students with members of the community (outside of the SBA)
3. Get all class time done in one weekend.

Other important points about these classes:

- The classes are primarily taught by adjuncts who are our community partners but may be taught by a regular faculty member in unusual circumstances.
- The classes do not have prerequisites, corequisites, or equivalents. The courses are open to all undergraduates at the university.
- All courses are 200 level.

Courses:

BCSS 200 Emotional Intelligence **credit(s): 1**

Emotional intelligence refers to the ability to identify and manage one's own emotions while recognizing the emotions of others. It is an important skill in the workplace which can separate average and excellent performance. This course will give students tools to understand and develop their emotional intelligence in the workplace.

BCSS 201 Business Leadership **credit(s): 1**

Business leadership refers to how people in an organization set objectives and influence others to achieve those objectives. Topics include leadership styles, theories of leadership, and case studies of leaders.

BCSS 202 Toxic Leadership **credit(s): 1**

Toxic leadership refers to the abuse of power by a business leader who puts their own interest before the interests of the organization and its employees. Toxic leaders create a climate of fear among employees in the workplace. This course will examine how to identify toxic leadership and change leadership styles.

BCSS 203 Effective Communication **credit(s): 1**

This class examines how individuals can identify, understand, and use the elements of effective communication in the business environment. Topics include active listening, feedback, communication channels, nonverbal cues, responsiveness, and respect.

- BCSS 204 Image and Reputation Management** **credit(s): 1**
 Image and reputation management refers to the work needed to build, maintain, and even repair personal and professional image and reputation. Topics include self-assessment, on-line presence, gratitude, trust building, authenticity, and integrity. Case studies of famous people who have experienced a reputational setback and redeemed themselves will provide discussion on different ways to build, maintain and repair image and reputation.
- BCSS 205 Negotiations** **credit(s): 1**
 Negotiations refer to a form of persuasive communication that can contribute to business success and help build better relationships. These skills are important both in business and personal endeavors. This course will examine how to build skills in negotiations that will help with deal making, career progression and informal daily interactions.
- BCSS 206 Sales** **credit(s): 1**
 Sales refers to the activities involved in selling goods and/or services in a given time period. This course focuses on how the student can engage in sales by building effective relationships and learning strategies for prospecting and developing a sales process.
- BCSS 207 Resiliency** **credit(s): 1**
 Resiliency refers to the ability to recover from difficulties. Building resilience has become a vital tool in the workplace and applies to personal and professional excellence. This course will examine how to build resilience by developing a growth mindset, exploring of self- awareness, and engaging in self-management.
- BCSS 208 Special Topic** **credit(s): 1**
- BCSS 209 Special Topic** **credit(s): 1**
- BCSS 210 Special Topic** **credit(s): 1**
- BCSS 211 Special Topic** **credit(s): 1**
- BCSS 212 Special Topic** **credit(s): 1**
- BCSS 213 Special Topic** **credit(s): 1**
- BCSS 214 Special Topic** **credit(s): 1**
- BCSS 215 Valuation Analysis** **credit(s): 1**
- BCSS 216 Emergency Preparedness** **credit(s): 1**
 Emergency preparedness refers to how businesses protect their operations, infrastructure, and workers from human-made or natural events such as terrorism, cyberattacks, pandemics, earthquakes, tornadoes, and fires. This class will examine why and how strategic business owners put emergency plans in place.
- BCSS 217 Organization Communication** **credit(s): 1**
 How an organization communicates with its stakeholders impacts its strategic success. This course examines how organizations use informal and formal communication to achieve strategic objectives.
- BCSS 218 Personal Financial Planning** **credit(s): 1**
 This course is an introduction to the fundamental principles of personal financial planning. Topics include analysis and evaluation of financial strategies, current topics in wealth management, and career options for financial planning.
- BCSS 219 Intellectual Property** **credit(s): 1**
 Intellectual property refers to property created by the human intellect such as copyrights, patents, trademarks, and trade secrets. Management and protection of intellectual property is

an integral part of business strategy. This course will focus on management and use of intellectual property to increase business value.

BCSS 220 Cryptocurrency **credit(s): 1**

Cryptocurrency refers to digital currency that is secured by cryptography and does not have a central backer, such as a government or bank. In this course, students will learn how digital currency is rapidly growing in traditional finance. Topics include blockchain technology, digital wallets, decentralized finance, and crypto security.

BCSS 221 Excel Skills **credit(s): 1**

Microsoft Excel is a spreadsheet software program that allows the user to analyze and visualize data. This course will introduce students to Excel concepts that allow them to analyze and present data in a format that will inform business decisions. This course will use hands-on exercises to cover practical Excel skills used every day in business.

BCSS 222 Power BI **credit(s): 1**

Power BI brings together software services, apps, and connectors to turn data into visual and interactive products. This course covers how to take data and turn it into a presentation using Power BI. Lessons will include how to import data, create visualizations, allow interactivity, and make reports.

BCSS 223 Special Topic **credit(s): 1**

BCSS 225 Special Topic **credit(s): 1**

Topic to be determined by faculty.

BCSS 230 Economics of the Side Hustle **credit(s): 1**

A side hustle refers to work that brings in extra money beyond a person's regular job and main income source. In this course, students will learn about business scope, pricing strategies, basic costs, financing, business licensing and regulations, and other considerations of a side hustle. There also will be time for students to work on their own side hustle ideas.

BCSS 231 Career Formation **credit(s): 1**

This course is designed to help students who are undecided about their major or career engage in the process of self-reflection and research. Students who complete this course will have a better understanding of the factors involved in making a career decision. Time will also be spent on understanding and utilizing tools that can be helpful in this process, such as LinkedIn, job search sites, and Gonzaga-specific resources.

BCSS 232 Career Activation **credit(s): 1**

This course is designed to help students understand and succeed in the job/internship search process. Topics include finding job postings, tailoring resumes and cover letters, interviewing in-person and online, negotiating an offer, and succeeding in the workplace. This course will give students tangible skills and resources that will help them stand out in the job market.

BCSS 233 Work Hacks **credit(s): 1**

This course examines several key topics about working and surviving in an organizational setting. These topics are pertinent to both for-profit and not-for-profit organizations. Topics include the joy of mistakes, working with people from different age groups and levels of experience, group projects, meetings and presentations, gatekeepers and bureaucracy, tips on when to listen and when to speak up, office communications and presentations, and taking and giving criticism.

- BCSS 234 Career Preparedness** **credit(s): 1**
 Career preparedness refers to knowledge, skills, and abilities that allow workers to enter the workforce with success and create a foundation on which to build a productive career. Topics include professionalism, communication, leadership and management, critical thinking, and belonging.
- BCSS 235 Vocation** **credit(s): 1**
 This class examines several aspects of the Jesuit mission of Gonzaga University and how it connects to career issues. Topics include the life of St. Ignatius, the prayer/reflection practice of Jesuits, and modern and secular career advice of management consultants.
- BCSS 240 Special Topic** **credit(s): 1**
- BCSS 241 Special Topic** **credit(s): 1**
- BCSS 242 Special Topics** **credit(s): 1**
 Course repeatable for 6 credit.
- BCSS 243 Special Topic** **credit(s): 1**
- BCSS 260 Intercultural Business Communication** **credit(s): 1**
 Intercultural business communication refers to how people in organizations communicate in intercultural and cross-cultural business contexts. Whether the context is regional or global, intercultural business communication skills are a strategic advantage. This course explores how to develop intercultural competence and communication skills that will allow students to thrive across multiple contexts.
 Course is available intermittently.
- BCSS 261 Gender in the Workplace** **credit(s): 1**
 This course examines several issues of gender in the U.S. workplace including the feminist movement and backlash, the intersection of race and gender, and transgender and gender non-conforming discrimination in the workplace. The course examines the individual and societal impacts of workplace gender inequality.
- BCSS 262 Equity and Storytelling** **credit(s): 1**
 Storytelling allows a leader to engage listeners by structuring information as a story instead of talking about facts. This course develops individual and collective views of equity through storytelling. Authentic leadership will be a focus of the course as storytelling is explored as a way to impact individuals, organizations, and society.
- BCSS 263 Introduction to Nonprofit Management** **credit(s): 1**
 A nonprofit is an organization that works for a collective, public or social benefit. This class will provide an introduction to nonprofits. Topics include legal structure, a few regulatory pieces, mission and visioning, basic strategic planning, and a survey of the local non-profit sector.
- BCSS 264 Nonprofit Fundraising and Marketing** **credit(s): 1**
 Nonprofit fundraising refers to the ongoing process of gathering donations and other funds to support a nonprofit organization's efforts to meet the needs of the community it serves. This course will address essential marketing and fundraising skills, principles, and tactics needed to thrive in the nonprofit landscape.
- BCSS 265 Nonprofit Management in Holocaust Education** **credit(s): 1**
 This course examines doing business as an educational non-profit organization. Topics include the relationship between product – in this case, educational resources —and development, including fundraising, grants, and marketing. By learning about the mission, resources and

outreach of a nonprofit organization, students will analyze and help solve existing challenges in marketing and developing new resources.

BCSS 266 Nonprofit Leadership **credit(s): 1**

This course examines the concepts of management and leadership in nonprofit organizations. Topics include legal, financial, and organizational governance of nonprofits and well as the role and challenges of leadership in the nonprofit sector. The course examines leadership philosophies used in the nonprofit sector and how differing styles affect effectiveness and achievement of organizational mission.

BCSS 267 Preparing for Service **credit(s): 1**

Gonzaga students often choose to engage in post-graduation service organizations such as the Peace Corps, Jesuit Volunteer Corps, Teach for America, and Americorps. This course will give students tools to examine the options for post-graduate service work and begin to prepare for their roles.

BCSS 268 Community Service and Leadership **credit(s): 1**

This course will explore community leadership strategies and practice through the lens of place-based engagement and adaptive leadership. The course will introduce students to critical community engagement and leadership frameworks that inform Gonzaga's commitment to place, spend time exploring our shared place of Northeast Spokane, and provide opportunities to learn from resident leaders who exemplify adaptive leadership in practice.

BCSS 269 Leadership in Global Business **credit(s): 1**

This course explores the leadership concepts that global organizations need to thrive. Students will examine culture, economics, and politics to understand how they can adapt their leadership in a global market.

BCSS 270 Law and Ethics in Healthcare Management **credit(s): 1**

This course examines the legal and ethical issues facing professionals in the healthcare industry. Students will examine private healthcare law and government regulation of health services with a focus on quality, cost, access, and autonomy.

BCSS 271 Special Topic **credit(s): 1**

Business Analytics

Organizations and businesses need actionable insights from data. Analytic tasks that facilitate such actionable insights include prediction, optimization, recommendation, classification, clustering, etc.

To be prepared to make an impact upon graduation -- students should possess technical and analytics skills that allow them to add value in their domain of interest. This concentration helps students apply their business knowledge (from core-courses) with technical and analytical skills – enabling them to become an effective data analyst or business analyst.

Business Analytics Concentration: 15 credits

BMIS 331 Problem Solving and Programming Techniques	3 credits
BMIS 342 Data Analytics for Business	3 credits
ECON 355 Regression Analysis	3 credits
BMIS 441 Database Management	3 credits
BMIS 445 Analytics Practicum	3 credits

Economics

The objective of the economics program is to give students a broad background and knowledge of domestic and international economic systems that are essential for business managers in today's competitive global economy. Graduates can apply economic theory to problems relating to market structures, resource markets, employment, and fiscal and monetary policies. Economists occupy a wide range of positions in profit and non-profit enterprises as well as in government. The economics concentration for business majors is highly recommended for pre-law students, as well as for students aiming for careers in banking, finance, government, or industry.

Students may also pursue a major or minor in this field. The requirements for the B.A. and B.S. degrees in economics can be found below. Students expecting to pursue graduate studies in economics are encouraged to pursue the B.S. degree. Students doing an Economics Concentration in Business are encouraged to take ECON 351 Managerial Economics and ECON 352 Money & Banking. Note that ECON 302 has a prerequisite of ECON 202 with a B- or better and ECON 301 has a prerequisite of ECON 201 with a B- or better.

Economics Concentration: 15 credits

One of the following two courses:	3 credits
ECON 302 Intermediate Macroeconomics	
ECON 352 Money and Banking	
One of the following two courses:	3 credits
ECON 301 Intermediate Microeconomics	
ECON 351 Managerial Economics	
ECON 355 Regression Analysis	3 credits
ECON 320-340 Applied Microeconomics course	3 credits
ECON upper division elective	3 credits

In addition to a concentration under the Bachelor of Business Administration degree, Economics offers two degrees and one minor:

- Bachelor of Science, Economics major
- Bachelor of Arts, Economics major
- Minor in Economics

The mission of the Economics program is to give students a broad background and knowledge of domestic and international economic systems that are essential for people in today's competitive global economy. To this end, two Economics majors are offered. The B.S. Major in Economics includes extensive coursework in mathematics as well as economics in preparation for graduate study in economics and careers requiring strong quantitative skills. The B.A. Major in Economics is offered for students who want an extensive background in economics in

preparation for careers in business or government as well as for those pursuing advanced study in law or business. A minor in Economics is also offered for students with other majors who need less extensive knowledge of economics. Regardless of the chosen degree, graduates can apply economic theory to problems relating to market structures, resource markets, employment, and fiscal and monetary policies. Students expecting to go into a business field are encouraged to take courses in accounting and may want to consider the general business minor or the minor in analytical finance offered by the School of Business Administration.

B.S. Major in Economics: 45 Credits

Lower Division

ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits
MATH 157, MATH 258 and MATH 259 Calculus	12 credits

Upper Division

ECON 301 Intermediate Microeconomics	3 credits
ECON 302 Intermediate Macroeconomics	3 credits
ECON 320-340 Applied Microeconomics courses	6 credits
ECON 355 Regression Analysis	3 credits
ECON 451 Econometrics	3 credits
One elective chosen from the following courses:	3 credits

- MATH 328 Operations Research
- MATH 421 Probability Theory
- MATH 422 Mathematical Statistics
- any upper division ECON elective

ECON 499 Senior Comprehensive Exam	0 credit
MATH 321 Statistics	3 credits
MATH 339 Linear Algebra or MATH 335 Applied Linear Algebra	3 credits

B.A. Major in Economics: 33 Credits

Lower Division

ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits
One of the following three courses:	3-4 credits

- MATH 114 Mathematical Analysis-Business
- MATH 148 Survey of Calculus
- MATH 157 Calculus-Analytic Geometry I

One of the following three courses:	3 credits
BUSN 230 Business Statistics	
MATH 321 Statistics for Experimentalist	
MATH 121 Introductory Statistics	

Upper Division

ECON 301 Intermediate Microeconomics	3 credits
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ECON 302 Intermediate Macroeconomics	3 credits
ECON 320-340 Applied Microeconomics courses	6 credits
One of the following two courses:	3 credits
ECON 401 Adam Smith and Karl Marx	
ECON 402 Currents in 20th Century Economics	
ECON 355 Regression Analysis	3 credits
One upper division ECON elective	3 credits
ECON 499 Senior Comprehensive Exam	0 credit

Minor in Economics: 18 Credits

Lower Division

ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits

Upper Division

ECON 302 Intermediate Macroeconomics	3 credits
Two of the following courses:	6 credits
ECON 301 Intermediate Microeconomics	
ECON 320-340 Applied Microeconomics courses	
Any upper division ECON elective	3 credits

Courses:

ECON 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

ECON 200 Economic Analysis credit(s): 3

A one-semester economics course for General Business minors and others interested in a one-semester survey course. Key microeconomic and macroeconomic models which are critical to the development of modern economics are explored. Analysis includes theories of supply and demand, theory of the firm, pricing, employment, monetary and fiscal policy, and international trade and finance.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

Equivalent(s): ECON 103, ECON 270H

Restriction(s):

Must not be in the following College/School(s): School of Business Administration

Must not be in the following Major(s): Economics, Economics-Arts, Economics-Science

ECON 201 Microeconomics credit(s): 3

Economics of the firm and the consumer. Principles underlying supply and demand; analysis of competition, monopoly, and other market structures; labor and other resource markets; international trade; taxation. Fall and Spring.

Equivalent(s): ECON 101, MBUS 500

ECON 202 Macroeconomics credit(s): 3

The structure and functioning of the national economy. Particular attention is given to determinants of national income, employment and the price level, fiscal and monetary policies, international trade, exchange rates, and trade restrictions. Fall and Spring.

Equivalent(s): ECON 102

ECON 289 Special Topics credit(s): 0-3

Course repeatable for 12 credit.

Topic to be determined by instructor.

ECON 290 Directed Study credit(s): 1-3

Course repeatable for 6 credit.

Lower division topic to be determined in consultation with the faculty. Directed study requires completion of a form and permission from Department Chair. Zagweb registration is not available. Summer only.

ECON 301 Intermediate Microeconomics credit(s): 3

The focus of this course is economic decision-making in consumer and producer theory. Topics include: consumer's budget constraints and utility maximization, producer's profit maximization and cost minimization, comparison of decisions under perfect competition and monopoly, and externalities.

Equivalent(s): ECON 403

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201, minimum grade: B- and (MATH 114 or MATH 148 or MATH 157)

ECON 302 Intermediate Macroeconomics **credit(s): 3**

Analysis of the determinants of the levels of national output and prices and the effects of monetary and fiscal policies.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ECON 202 and (MATH 114 or OMATH 157 or MATH 148)

ECON 303 Game Theory and Economic Applications **credit(s): 3**

Game theory is a study of strategic decision-making. Participants in games make decisions that are not only in their best interests but also anticipate and incorporate the fact that their decisions (and subsequent actions) have an impact on others and vice versa. This course includes a variety of economic applications of game theory in fields such as industrial organization and public economics.

Equivalent(s): ECON 303H

Prerequisite(s): (ECON 201 or ECON 270H)(and MATH 114 or MATH 148 or MATH 157)

ECON 311 Global Economic Issues **credit(s): 3**

This course is a presentation of a broad range of global issues relevant to a number of disciplines including economics, political science, and international studies, focusing primarily on developing regions of the world. Topics include: economic growth and inequality, international trade, diseases/healthcare, education, and foreign aid. Spring.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq

Equivalent(s): INST 343

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201 or ECON 270H or ECON 200 or ECON 200

ECON 320 Economics of Sports **credit(s): 3**

Explores the economic incentives present in both professional and amateur sports. Topics analyzed include league structure, advertising, ticket pricing, team decision making, labor relations, incentive structures, stadium financing and Title IX. Summer.

Fulfills the following degree requirement(s): BU - LPP conc Req

Prerequisite(s): ECON 201 or ECON 270H

ECON 321 International Economics **credit(s): 3**

The focus of this course is on international trade theory and macroeconomic issues related to international finance. Topics include: economic analysis of the basis for international specialization and trade; gains from trade; the balance of international payments; tariffs; international monetary problems; exchange rate adjustments; capital movements; and international economic organizations. Upon sufficient demand.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq

Equivalent(s): ECON 411

Prerequisite(s): ECON 301 or ECON 351

ECON 322 Work, Wages, and Inequality credit(s): 3

An economic perspective on labor market issues. Explores recent controversial topics such as inequality in earnings, race and sex discrimination in labor markets, immigration, minimum wage laws and labor unions, health and safety regulations in the work-place.

Fulfills the following degree requirement(s): SOSJ - Block B, Core: Social Justice

Equivalent(s): ECON 312, SOSJ 320

Prerequisite(s): ECON 201 or ECON 270H

ECON 324 Econ of Environmental Protection credit(s): 3

Explores the economic dimensions of environmental topics such as air and water pollution, deforestation, non-renewable resource depletion, recycling, global warming. The course studies the extent of environmental problems and alternative solutions.

Fulfills the following degree requirement(s): BU - LPP conc Req

Equivalent(s): ECON 304, ENV5 320

Prerequisite(s): ECON 201 or ECON 270H or ECON 200

ECON 325 Public Finance credit(s): 3

Develops economic tools used to analyze government expenditures and taxation. Discussion of public policy issues such as welfare reform, Social Security, and tax reform.

Fulfills the following degree requirement(s): BU - LPP conc Req

Equivalent(s): ECON 305

Prerequisite(s): ECON 201 or ECON 270H

ECON 330 Antitrust Policy and Regulation credit(s): 3

Examines the rationale for and effects of various government policies toward business.

Analyzes the economic consequences of market power. Emphasis is placed on antitrust policy as a response to market power.

Fulfills the following degree requirement(s): BU - LPP conc Req

Equivalent(s): ECON 310

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ECON 201 or ECON 270H

ECON 333 Health Economics credit(s): 3

Consideration of microeconomic theory to the specialized area of health care. Topics include what makes health care distinctive as an economic good, the supply and demand for health and healthcare in theory and practice, and economic proposals to overcome market failure in the health care industry.

Fulfills the following degree requirement(s): HEAL - Electives

Prerequisite(s): ECON 201 or ECON 270H minimum grade: D

ECON 334 Behavioral Economics credit(s): 3

This course focuses on the insights gained from incorporating psychology into economic and financial modeling, an approach that leads to a better understanding of economic incentives, behavior and how individuals make decisions. By examining human behavior in this way, we are able to address and better design policies that improve decision-making in a variety of settings. As such, this class will examine how individuals make decisions in risky scenarios, nudges to alter decision-making and many other tools that can be used to influence choices. Summer.

Prerequisite(s): ECON 201 or ECON 270H

ECON 351 Managerial Economics **credit(s): 3**

Applications of economic theory to business decisions. Topics include: demand analysis, economic forecasting; market structure; competition; pricing decisions; and price discrimination.

Equivalent(s): ECON 400

Prerequisite(s): ECON 201 and (BUSN 230 or MATH 121 or MATH 321)

ECON 352 Money and Banking **credit(s): 3**

This course will focus on the principles of money, credit, banking, and financial markets. It will explore the roles of the Federal Reserve and the banking system in stabilizing the financial system, employment, and prices. The course will also look at the international financial system.

Equivalent(s): ECON 309

Prerequisite(s): ECON 202

ECON 352L Money and Banking Math Lab **credit(s): 1**

This course will provide the financial mathematical preparation to prepare students for the actuarial exam in financial mathematics or the charter financial analyst exam. Students will develop the mathematical foundations in relevant topics. Topics covered include the time value of money; annuities and cash flow; loans; bonds; immunization; interest rate swaps; and determinants of interest rates. This course will be required of all students pursuing the Applied Mathematics major with Actuarial Science concentration

Corequisite(s): ECON 352

Prerequisite(s): MATH 258, minimum grade: C-

ECON 355 Regression Analysis **credit(s): 3**

Introduction to the construction and use of regression models and data analysis. Topics include estimation and inferential techniques in Simple and Multiple Regression. Emphasis on interpreting and understanding regression results. Other data topics as applicable.

Prerequisite(s): ECON 201 and ECON 202 and (BUSN 230 or MATH121 or MATH 321)

ECON 390 Directed Study **credit(s): 1-4**

Course repeatable for 6 credit.

Topic to be determined by instructor. Summer only.

ECON 401 Smith, Marx, Rerum Novarum **credit(s): 3**

A course focused on reading and discussing the works of Adam Smith, Karl Marx, Frederick Engels and Henry George along with Pope Leo XIII on The Condition of Labor. Supplemented with material on other important economic thinkers from 1500 to 1891.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201 and ECON 202

ECON 402 Currents in 20th Century Economics **credit(s): 3**
Emphasis on the works of Institutional, neoclassical, Austrian, Keynesian, post-Keynesian and Chicago School economists.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 302 or ECON 352

ECON 404 Economic Integrity-European Community **credit(s): 3**

A survey of the origins and development of the European Community; its relation to GATT (General Agreement on Trade and Tariffs); monetary coordination; monopoly, competition, and the balances of payments. Florence campus only.

Fulfills the following degree requirement(s): ITAL - Studies upp div elec

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

ECON 411 International Economics **credit(s): 3**

The focus of this course is on international trade theory and macroeconomic issues related to international finance. Topics include: economic analysis of the basis for international specialization and trade; gains from trade; the balance of international payments; tariffs; international monetary problems; exchange rate adjustments; capital movements; and international economic organizations.

Restriction(s):

Must be in the following Major(s): Business Administration, Economics-Arts, Economics-Science

Prerequisite(s): ECON 201 or ECON 270H or ECON 101

ECON 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

ECON 451 Econometrics **credit(s): 3**

Mathematical and statistical techniques applied to economic and business research and forecasting. Students will undertake a research project.

Fulfills the following degree requirement(s): Core: Writing Enriched

Equivalent(s): ECON 300

Prerequisite(s): ECON 201 and ECON 202 and ECON 355 and BUSN 230 or MATH 121 or MATH 321 or MATH 425

ECON 452 Time Series Analysis **credit(s): 3**

Introduction to forecasting and time series analysis. Topics include unit roots, cointegration, forecasting methods, vector error-correction and vector autoregression modeling, dynamic panel data, and appropriate use of time series modeling. Emphasis will be on theoretical, methodological and applied topics, and much of the work will be hands-on numerical analysis.

Prerequisite(s): (ECON 355, minimum grade: C- or MATH 425, minimum grade: C-)(and MATH 321, minimum grade: C- or MATH 421, minimum grade: C-)(and ECON 201, minimum grade: C- and ECON 202, minimum grade: C-)

ECON 487 Special Topics **credit(s): 1-3**

Course repeatable for 9 credit.

Topics and credit by arrangement.

ECON 489 Special Topic Seminar **credit(s): 1-3**

Course repeatable for 9 credit.

Topics and credit by arrangement.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201 or ECON 270H

ECON 491 Directed Study **credit(s): 0-3**

Course repeatable for 6 credit.

Individually-designed course at the upper division level appropriate to the student's major.

Directed Study requires completion of a form and permission from the Department Chair.

Zagweb registration is not available. Summer only.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

ECON 497 Internship**credit(s): 0-3**

Work experience directly related to the student's major area of study. Internship requires completion of an application form, a 3.00 GPA and permission from the department. Zagweb registration is not available. Fall, Spring, and Summer.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be the following Class(es): Junior, Senior

ECON 499 Senior Comprehensive Examination**credit(s): 0**

Required of all College of Arts and Sciences Economics majors. Students should take ECON 499 in the semester before they plan to graduate. Fall and Spring.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Economics-Arts, Economics-Arts, Economics-Science, Economics-Science

Must be the following Class(es): Senior

Entrepreneurship and Innovation

Students in the School of Business Administration can earn a Concentration in Entrepreneurship & Innovation in which they will learn skills related to the entrepreneurial mindset. From idea generation to opportunity-seeking behavior, the program takes students through the entrepreneurial process and prepares them for a variety of careers: creating a new enterprise, buying or expanding an existing enterprise, franchising, generating a family business, and engaging in corporate or social entrepreneurship. There is a strong emphasis on experiential learning and networking with entrepreneurs from the community.

Entrepreneurship and Innovation Concentration: 12 credits

BENT 490 Creativity, Innovation and Entrepreneurship 3 credits

BENT 491 Creating New Ventures 3 credits

One of the following: 3 credits

BENT 492 Technology Entrepreneurship

BENT 493 Social Entrepreneurship

One of the following: 3 credits

BUSN 470 Multidisciplinary Action Projects

BUSN 491 Startup Accelerator

BUSN 494 Small Business Consulting

BMIS 443 Technology for Web/Mobile-Based Business

Courses:

BENT 340 Small Business in Europe credit(s): 3

Small and medium sized businesses play a major role in the Italian economic system. Students will interact with the business community as they learn fundamental management and marketing principles as well as the unique organization structures, legal considerations, and operational issues associated with business enterprise in Italy. Florence only. On sufficient demand.

BENT 490 Creativity, Innovation, and Entrepreneurship credit(s): 3-9

Prepares students with the fundamentals of idea generation, feasibility assessment, team building, and assembly of resources for the creation of a new venture. The class includes guest speakers, case studies, and a team project. Any major at the university can enroll.

Restriction(s):

Must be the following Class(es): Junior, Senior

BENT 491 Creating New Ventures**credit(s): 3**

This course covers the fundamentals of creating and growing new commercial or social enterprises. Course content provides an overview of the world of entrepreneurship including an introduction to economics, the role of society and government, legal and ethical issues, creating and managing new ventures, and the various functional areas of business. Students are required to complete a business plan and investor presentation for a commercial or non-profit organization as part of the course requirements. In addition to receiving support from Gonzaga faculty and experienced entrepreneurs, students interact with attorneys, financiers, and other professional service providers. Any major at the university can enroll.

Restriction(s):

Must be the following Class(es): Junior, Senior

Must be an Entrepreneurship & Innovation concentration or an Entrepreneurship & Innovation minor

Prerequisite(s): BENT 490**BENT 492 Technology Entrepreneurship****credit(s): 3**

This class develops a framework to study, analyze and understand the formation and creation of new ventures with an emphasis on organizations specializing in product innovation and technology as their main source of competitive advantage. This course introduces students with a technical background to the inherent risks, issues and hurdles faced by both independent and corporate entrepreneurs. The course objectives include: identifying and evaluating market opportunities, investigating intellectual property issues, creating a management team, funding start-ups, evaluating business models, and the growth of new ventures. Open to any major at the University.

Fulfills the following degree requirement(s): BU – E&I conc - Entrepreneurship**Restriction(s):**

Must be an Entrepreneurship & Innovation concentration or an Entrepreneurship & Innovation minor

Must be the following Class(es): Junior or Senior

Prerequisite(s): BENT 490**BENT 493 Social Entrepreneurship****credit(s): 3**

This course provides students with an introduction to social entrepreneurs (those who create new ventures to address unmet societal needs), the ventures they create, how these ventures create social value, and to provide students with the tools they need to pursue their own social enterprises. Students will address each of the key components of this emerging field: problem identification, solution identification, concept development, venture creation, value assessment, and the communication of the idea and venture goals. Students will explore examples of current social enterprises, leading thinkers in the field of social entrepreneurship, and core entrepreneurial theory focused on social enterprises. Any major in the university can enroll.

Fulfills the following degree requirement(s): BU – E&I conc - Entrepreneurship**Restriction(s):**

Must be the following Class(es): Junior, Senior

BENT 495 New Venture Lab**credit(s): 0-3**

Course repeatable for 3 credit.

This is an experiential course that provides 'hands-on' experience in developing ideas for new commercial and/or social enterprises. Students work on teams to develop their own or other entrepreneurs' ideas. Projects typically involve feasibility analysis, market research, and business planning. Students receive one credit for each 60 hours worked in the New Venture Lab. Course requirements include keeping a journal, completing assigned project tasks, and submitting a final report detailing learning outcomes. This course counts towards the experiential requirement for business majors. Open to any major in the University. Instructor approval required.

Fulfills the following degree requirement(s): BU – E&I conc - Experience**Equivalent(s):** ENTR 495**Restriction(s):**

Must be the following Class(es): Junior, Senior

BENT 496 Special Topics**credit(s): 0-4**

Course repeatable for 16 credit.4 time.

Topics to be determined by department

Fulfills the following degree requirement(s): BU – E&I conc - Entrepreneurship**BENT 498 Independent Study****credit(s): 1-4**

Course repeatable for 12 credit.

Topic to be decided by faculty.

Finance

The finance curriculum is designed to give students a solid foundation in financial theory while developing skills and techniques necessary to manage today's dynamic business environment. The globalization of both product and financial markets, rapid development in information technology, and recent advances in the field of finance have created a growing need for well-qualified graduates. Challenging career opportunities exist in the securities and financial services industry, information systems, and corporate financial management.

Finance Concentration: 15 credits

BFIN 322 Intermediate Finance	3 credits
ACCT 367 Financial Reporting	3 credits
BFIN 422 Investment Analysis	3 credits
BFIN 423 Financial Management Cases	3 credits
Electives chosen from the following:	3 credits
BFIN 324 Financial Modeling	
BFIN 325 Financial Institutions	
BFIN 327 International Finance	
BFIN 424 Real Estate Principles	
BFIN 426 Mergers and Acquisitions	
BFIN 429A Portfolio Management I	
BFIN 429B Portfolio Management II	
BFIN 429C Portfolio Management III	

Courses:

BFIN 320 Principles of Finance **credit(s): 3**

Financial analysis and management, including time value of money, risk and return models, valuation, the cost of capital, capital budgeting techniques, and capital structure theory. Fall and Spring.

Equivalent(s): MBUS 520

Restriction(s):

 Must not be in the following College/School(s):

 Must be in the following Major(s): Accounting, Analytical Finance, Business Administration, Engineering Management, General Business, Undeclared Business

 Must be the following Class(es): Junior, Senior

Prerequisite(s): ACCT 260 (or ACCT 263) with minimum grade C- and ECON 201 (or ECON 200) with minimum grade C-, and BUSN 230 (or MATH 121 or MATH 321) with minimum grade C-.

BFIN 322 Intermediate Finance **credit(s): 3**

A continuation of BFIN 320; new topics include working capital policy and management, advanced capital budgeting techniques, options, and futures.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Analytical Finance, Finance

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C

BFIN 324 Financial Modeling **credit(s): 3**

This course applies financial concepts to build analytic frameworks and financial models that can be used to value corporate initiatives including capital investment or mergers and acquisitions. This course will help develop financial and strategic intuition when tackling business problems as a finance professional.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must be in the following Major(s): Accounting, Analytical Finance, Business Administration, General Business, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C

BFIN 325 Financial Institutions **credit(s): 3**

Allocation of financial flows through the markets. Topics covered include the various financial institutions, fund flows, structure of markets, and management of financial institutions. On sufficient demand.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C-

BFIN 327 International Finance **credit(s): 3**

A study of financial considerations inherent in international business operations. Topics include: foreign currency markets and exchange rate forecasting; international risk exposure analysis and hedging strategies; international project evaluation and capital budgeting; and international trade financing methods.

Fulfills the following degree requirement(s): BU - Finance conc course, BU - Int'l Business conc Rq, BU - Oper Supply Chain conc

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting, Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C-

BFIN 422 Investment Analysis **credit(s): 3**

Basic principles and fundamentals of securities markets. Introduction to alternative investment

choices and portfolio management theory.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Analytical Finance, Business Administration,
Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 322 with minimum grade of C

BFIN 423 Financial Management Cases

credit(s): 3

Case problems in corporate financial management. Topics include working capital, raising long-term capital, capital budgeting, cost of capital, and asset structure.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 322, minimum grade: C

BFIN 424 Real Estate Principles

credit(s): 3

A study in the principles and practices of real estate marketing and financing. On sufficient demand.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C-

BFIN 426 Mergers and Acquisitions

credit(s): 3

Merger types and characteristics, theoretical motivations for mergers, and principles of valuation are covered within the corporate finance framework.

Fulfills the following degree requirement(s): BU - Finance conc course, BU - LPP conc Req

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C-

BFIN 429A Portfolio Management I

credit(s): 1

This is the first segment of a course that runs for three consecutive semesters beginning in the Spring semester of the student's junior year. Registration by instructor permission.

Fulfills the following degree requirement(s): BU - Finance conc course

Equivalent(s): BFIN 429

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must not be in the following Major(s): Must be in the following Major(s): Accounting,
Business Administration, Finance, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 with minimum grade of C-

BFIN 429B Portfolio Management II **credit(s): 1**

This is the second segment of a course that runs for three consecutive semesters beginning in the Spring semester of the student's junior year.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must not be the following Class(es): Senior

Prerequisite(s): BFIN 429A with minimum grade of C-

BFIN 429C Portfolio Management III **credit(s): 1**

This is the third segment of a course that runs for three consecutive semesters beginning in the Spring semester of the student's junior year.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must not be in the following Major(s): Must be in the following Major(s): Accounting, Business Administration, Finance, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 429B

BFIN 489 Special Topic Seminar **credit(s): 0-3**

Course repeatable for 12 credit.

Credit by arrangement. On sufficient demand.

Fulfills the following degree requirement(s): BU - Finance conc course

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320

BFIN 491 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

An individually designed course appropriate to the student's concentration. Available Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

General Business Courses

The following general business courses are offered to all students in the School of Business Administration.

Courses:

BUSN 101 Introduction to Business **credit(s): 3**

This introduction to business class is designed for first-year students who wish to explore the majors and concentrations available in the School of Business, to examine careers in business, to learn more about business education in a Jesuit tradition, and to begin preparing for a career.

Restriction(s):

Must not be in the following College/School(s):

Must be the following Class(es): Freshman

BUSN 111 Business Computing **credit(s): 2**

This course introduces students to an integrated set of software tools to solve business problems and to communicate results. Students learn the tools available in the Microsoft Office Suite to enter, manipulate and analyze data in spreadsheets, database systems, presentation software, Internet facilities to help improve problem-solving skills and enhance productivity. Additionally, students will learn about file management systems and operating systems. Classroom lectures and hands-on computer use are employed to enhance learning.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

BUSN 190 Topics **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be decided by faculty.

BUSN 193 First Year Seminar **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must be the following Class(es): Freshman

BUSN 230 Business Statistics **credit(s): 3**

This course introduces business students to the terminology, uses and underlying theory in the areas of data summarization and description, basic probability concepts and distributions, sampling methods and sampling distribution, hypothesis testing, analysis of variance, regression and correlation, and nonparametric methods. The course improves the student's awareness and ability in incorporating statistical considerations into the decision-making process and provides them with experience in using statistical software to assist in the quantitative analysis of business problems. Fall and Spring

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): BUSN 111 and MATH 114

BUSN 270 Special Topics Skills Course **credit(s): 0 or 1**

Course repeatable 5 time.

These one-credit special topics courses teach students skills for thriving inside and outside the workplace. The courses are typically taught on weekends several times a semester.

Restriction(s):

Must not be the following Class(es): Freshman

BUSN 283 Business Law **credit(s): 3**

This course addresses the legal fundamentals in running a business with particular attention to contracts, partnerships, corporations, property, commercial paper, securities, and the regulatory environment. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

BUSN 286 DECA PNCDC **credit(s): 2**

Course repeatable for 20 credit.

DECA conferences provide opportunities for students to grow both personally and professionally through leadership development, competitive events, and community involvement. DECA conferences challenge students to incorporate leadership and problem-solving skills in four career clusters: Marketing, Business Management, Finance, and Hospitality. This course is designed to prepare student for the regional (PNCDC) conference, by integrating the skills and knowledge learned in the classroom into real world experiences.

BUSN 290 Directed Study **credit(s): 1-3**

Course repeatable for 10 credit.

Topic to be decided by faculty

BUSN 390 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Topic to be decided by faculty.

BUSN 430 Sustainable Business **credit(s): 3**

The course will examine the emerging practice of Sustainable Business. Coverage begins with an investigation as to why the "standard" business model may not be sustainable, including such topics as market failures, externalities, agency problems, short-termism, and the

commons problem. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ECON 201 and ECON 202

BUSN 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

BUSN 470 Multidisciplinary Action Projects

credit(s): 3

This is a project-based course designed to give hands-on, real world experience on one or more projects for businesses in our community. These projects could include developing a branding strategy, designing a compensation system, or evaluating a new idea or opportunity. The projects cross all areas of organizational life and will require student teams to bring a variety of skills and knowledge bases to the work.

Fulfills the following degree requirement(s): BU - E&I conc – Experience, BU-Experiential

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting, Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s):

BUSN 480 Senior Seminar Business Ethics

credit(s): 3

This 3-credit course, to be taken during the student's senior year, is designed to introduce students to the fundamentals of addressing ethical issues which arise in all aspects of business and in the interface between business activity and institutions, and the larger society which they serve. The theme of the course is that "business" is an inherently ethical practice, one which is governed by moral norms that shape the very purpose and nature of business activity and institutions, not an "add on" or a "second bottom line." Fall and Spring.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Core Integration Seminar

Restriction(s):

Must be in the following Major(s): Accounting, Business Administration,

Must be the following Class(es): Senior

Prerequisite(s): PHIL 301 or RELI 276 or RELI 376 or WGST 237C and (ACCT 260 and ACCT 261 and ECON 201 and ECON 202 and BUSN 230 and BMIS 235 with a minimum grade of C- in each class and an average GPA across all six classes of 2.0) and BFIN 320 and MGMT 350 and MKTG 310 and OPER 340.

BUSN 481 Strategic Management **credit(s): 3**

A capstone course that introduces strategic management concepts and practices and integrates functional areas in a broad systems-perspective approach to organizational challenges. The primary instructional tool is case analysis. Consideration is given to the international context of strategic management and to the ethical dimensions of decision-making crucial to effective strategy formulation and implementation. Fall and Spring.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be the following Class(es): Senior

Prerequisite(s): (ACCT 260 and ACCT 261 and ECON 201 and ECON 202 and BUSN 230 and BMIS 235 with a minimum grade of C- in each class and an average GPA across all six classes of 2.0) and BFIN 320 and MGMT 350 and MKTG 310 and OPER 340.

BUSN 486 DECA ICDC **credit(s): 2**

Course repeatable for 20 credit.

DECA conferences provide opportunities for students to grow both personally and professionally through leadership development, competitive events, and community involvement. DECA conferences challenge students to incorporate leadership and problem-solving skills in four career clusters: Marketing, Business Management, Finance, and Hospitality. This course is designed to prepare student for the international (ICDC) conference, by integrating the skills and knowledge learned in the classroom into real world experiences.

BUSN 489 Special Topics **credit(s): 2-3**

Course repeatable 2 time.

Topics and credit by arrangement.

Prerequisite(s):

BUSN 490 Integrative Perspectives **credit(s): 3**

Course repeatable 2 time.

This course focuses on integrating advanced topics and/or best practices from different disciplines. The course content varies over time to reflect leading-edge concepts and practices (e.g., business ethics, quality management and international standards, technology infrastructure, e-business strategy, etc.). Courses often involve a large-scale team project. May be repeated up to a maximum of six credits.

Restriction(s):

Must not be in the following College/School(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s):

BUSN 491 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

Directed study requires completion of an application form and departmental permission.

Zagweb registration not available. Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

BUSN 492 Business Planning**credit(s): 3**

This course integrates business principles with business practices. Topics include assessing industry attractiveness, environment analysis, market segmentation, demand forecasting, product development, operations, financial analysis, control mechanisms, contingency planning, and implementation strategies. The preparation of a business plan is also a required component of the course as well as weekly written assignments. This course may be used to satisfy three credits of Integrative courses.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Accounting, Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): BFIN 320 and MGMT 350 and MKTG 310 and OPER 340

BUSN 494 Small Business Consulting**credit(s): 3**

Practicum in providing management assistance to businesses and non-profit organizations in marketing, management, finance, accounting, information systems operations and related case problems. The course will also examine the management of the consulting process and the role of the consultant as an agent for organizational change. This course will satisfy three credits of the experiential major requirement. Permission required. Zagweb registration not available.

Fulfills the following degree requirement(s): BU - E&I conc - Experience

Restriction(s):

Must not be in the following College/School(s):

Must be the following Class(es): Senior

Prerequisite(s): Cumulative g.p.a. of 3.25 or above.

BUSN 497 Internship**credit(s): 0-3**

Course repeatable for 3 credit.

Work experience directly related to the student's major and area of concentration. Guidelines are available from the Internship Director. Zagweb registration not available. Fall, Spring, and Summer.

Fulfills the following degree requirement(s): BU - E&I conc - Experience

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be the following Class(es): Junior, Senior

Human Resource Management

This concentration provides students a broad background in the management of human resources as well as an awareness of the functional specialties within the field of human resource management. In addition to qualifying students for specific careers in human resources management and general management, this concentration also provides an excellent entry to a variety of professional positions that demand effective direction of people.

Human Resource Management Concentration 12 Credits

MGMT 400 Recruitment and Selection	3 credits
MGMT 405 Compensation and Performance Appraisal	3 credits
MGMT 410 Training and Organizational Development	3 credits
MGMT 415 Employment Law and Labor Relations	3 credits

Courses:

MGMT 350 Principles of Management credit(s): 3

This course examines the theory and practice of managing employees in organizations. As an introduction to human resource management, topics covered include strategy, structure, recruitment and selection, development, ethics, compensation and motivation, leadership and appraisals, workplace diversity and group dynamics, conflict and decision-making, employment law, and global management. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting, Business Administration, Engineering Management, General Business, Undeclared Business

Must not be the following Class(es): Freshman

Prerequisite(s):

MGMT 355 International Management credit(s): 3

This course examines the information and skills needed to manage an organization in an international setting. Topics include international cultures, cross-cultural communication, cross-cultural negotiation, leadership, ethics, international human resource management and motivation of a multicultural workforce.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq, Core: Global Studies

Equivalent(s): HONS 377, MGMT 352

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): MGMT 350

MGMT 400 Recruitment and Selection **credit(s): 3**

This course examines strategies for hiring and retaining the workforce necessary for an organization to achieve its vision and mission. Topics include workforce planning, ethics, job analysis and design, recruitment, selection, retention, human resource information systems, and organizational entry and socialization.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): MGMT 350

MGMT 405 Comp and Performance Appraisal **credit(s): 3**

This course examines the strategic use of compensation and performance appraisal systems to align employee interests with organizational vision and mission. Topics include job evaluation, compensation systems, benefit programs, appraisal methods, performance management methods, ethics, task/process analysis, documentation, and measurement of human resource outcomes.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): MGMT 350

MGMT 410 Training and Organizational Development **credit(s): 3**

The course examines two development processes related to organizational vision and mission. The first process is the training and development of employees to meet employee and strategic goals. The second is the development of the organization to enhance strategic effectiveness. Topics include needs assessment, training and development, talent management, career development, leadership development, ethics, diagnosis, interventions, models of change, resistance to change, organizational development initiatives, and change related to downsizing, mergers and acquisitions, and globalization.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): MGMT 350

MGMT 415 Employ Law and Labor Relations **credit(s): 3**

This course examines legal issues in the employee-employer relationship. Topics include laws affecting human resource practices, occupational health, safety and security, discipline and complaint resolution, ethics, management of a diverse workforce, and labor relations.

Fulfills the following degree requirement(s): BU - LPP conc Req

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): MGMT 350

MGMT 489 Special Topic Seminar

credit(s): 1-4

Credit by arrangement.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Prerequisite(s): MGMT 350

MGMT 491 Directed Study

credit(s): 1-3

Course repeatable for 6 credit.

Directed study requires completion of an application form, and departmental permission.

Zagweb registration not available. Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Individualized Program

Students may design an interdisciplinary concentration of courses related to their individual goals and interests. This concentration must include twelve credits of upper division courses approved by a faculty advisor.

International Business

The International Business Concentration is designed for students who want to prepare themselves to meet the challenges associated with globalization. ***This concentration must be taken in tandem with another major (accounting) or another concentration.*** Students must complete the international course for the functional area of their primary concentration, if offered. This international course can be used to fulfill either a requirement in either the primary concentration or the international business concentration, **however, it cannot be double-counted in both concentrations.**

International Business Concentration: 12 credits

Four courses selected from the following:

ECON 311 Global Economic Issues (or ECON 321 for economics concentration)	3 credits
BFIN 327 International Finance	3 credits
MGMT 355 International Management	3 credits
MKTG 417 International Marketing	3 credits
OPER 440 Global Operations and Supply Chain Management	3 credits

Course descriptions are found under the respective disciplines.

Students with a concentration in International Business may not double-count any of the above courses to satisfy their broadening, international, or experiential requirement in the business administration major. Students in this concentration may count one three credit foreign language course taken at the 200-level or above to satisfy the international three-credit requirement for their primary concentration. A course in a student's native language does not fulfill this requirement.

Law and Public Policy

Government regulation and legislation have a major impact on business, creating a need for public policy makers to understand the workings of business and for people in the private sector to understand the public sector. This is especially relevant for people pursuing careers in corporate public affairs and professional study in law, public administration, and public policy analysis.

Law and Public Policy Concentration: 12 credits

Four courses selected with advisor approval from the following, with not more than six credits from one department:

ACCT 365 Federal Taxation
ECON 320 Economics of Sports
ECON 322 Work, Wages, and Inequality
ECON 324 Economics of Environmental Protection
ECON 325 Public Finance
ECON 330 Anti-Trust Policy and Regulation
ECON 333 Health Economics
ECON 352 Money and Banking
ECON 401 Smith, Marx, Rerum Novarum
ECON 402 Currents in 20th Century Economics
ECON 404 Economic Integration-European Communities
BFIN 426 Mergers and Acquisitions
MGMT 415 Employment Law and Labor Relations
POLS 303 Civil Liberties: Class, Race and Gender
POLS 321 Politics and Public Administration
POLS 323 Constitutional Law
POLS 325 Selected Topics: Amer Politics
POLS 331 Modern Political Thought
POLS 357 Italian Political System
POLS 359 Third World Development
POLS 372 Middle East Politics

Management Information Systems

The strategic use of information and communication technology (ICT) is critical for organizations in today's complex and competitive business environment. The Management Information Systems (MIS) concentration combines a strong business curriculum with the knowledge and technical skills of ICT required to help organizations thrive and grow. The MIS program is designed to prepare business professionals who are business oriented, technically competent, and able to interact effectively in organizations. Challenging career opportunities exist for MIS graduates across a variety of organizations (financial services, retail, consulting, technology, manufacturing, etc.) and positions (e.g., business analyst, application developer, network analyst, software engineer, project manager, database analyst, web developer, information systems manager, consultant).

Management Information Systems Concentration: 12 credits

BMIS 331 Problem Solving and Programming Techniques	3 credits
BMIS 342 Data Analytics for Business	3 credits
BMIS 441 Database Management	3 credits
BMIS 444 Information Systems Analysis and Design	3 credits

Courses:

BMIS 235 Management Information Systems credit(s): 3

This course introduces fundamental concepts of information systems and develops essential skills and techniques for using information technology (IT). The emphasis is on the role of information systems in today's organizations, including how IT changes individual work, impacts organizational structure and processes, and shapes competition in the business environment. Also, fundamental concepts essential to effective use of information technology are introduced. Specific topics include the system concept, hardware, software, communication tools, database management systems, components of information systems, e-commerce (EC), technologies for developing EC, and systems development approaches. Several software tools are employed to develop students' ability to apply information technology to business problems. Fall, Spring, and Summer.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting, Business Administration, Engineering Management, General Business, Mgmt Info Systems, Undeclared Business

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): BUSN 111

BMIS 245 Technical Foundations of Digital Marketing credit(s): 3

Marketing now has a stronger use of information technology than ever before. For example, as of 2015, 99% of Google's revenue comes from advertising. The objective of the course is to equip students with foundational knowledge, skills, and techniques of a variety of technologies that have been widely used to build customer-facing applications and devices. Beginning with a short review of the history of the Internet and the Web, the course introduces students to fundamental concepts and the process of developing consumer-centered applications. A variety of tools and techniques for developing such applications are presented, such as the structure of web pages, web page language (XHTML and HTML), Cascading Style Sheets (CSS) and script languages. The de facto language of consumer-centered programming language, JavaScript, is adopted as a vehicle to develop aforementioned skills and techniques. Relevant technologies such as JQuery, JSON and popular JavaScript frameworks will be introduced. These skills will provide the technical background necessary for digital marketing efforts. Offered Fall, Spring

BMIS 331 Problem Solving and Programming Techniques credit(s): 3

This course provides a basic introduction and practical experience in developing algorithms and writing computer programs to solve business problems. Students will be required to design solutions as well as to code, test, and debug programs that are soundly structured and easy to maintain. Topics include variables, data types, control structures, input/output control, arrays, method invocation and parameter passing.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Digital Marketing, Mgmt Info Systems, Mgmt Info Systems Concentrn

Must be the following Class(es): Junior, Senior

Prerequisite(s): BMIS 235

BMIS 342 Data Analytics for Business credit(s): 3

The purpose of the course is to equip students with knowledge, skills, techniques and technologies for data analytics in the context of business. Starting with an introduction to the enterprise business intelligence architecture, the course will proceed to introduce and compare/contrast popular data analytics technologies, such as Power BI, R, and Python, in the market. After that, the course will focus on the development of skills using select data analysis technology. Students will learn how to extract data from heterogeneous data sources, how to transform data into a data format ready for analysis and how to analyze and visualize data. The target students of this course are those in the MIS concentration. The teaching objective is to prepare students to pursue a career in data analytics or to play the role of consultant assisting others in making informed data analytics-related decisions.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration with a concentration in Management Information Systems or a minor in Management Information Systems Business Analytics, ,

Must be the following Class(es): Junior, Senior

Prerequisite(s): BMIS 235 and BMIS 331

BMIS 441 Data Base Management**credit(s): 3**

This course helps students understand, through practice, the concepts of database management. Topics include a broader view in aspects of SQL (Structured Query Language), data modeling, project life cycle, data normalization, data warehousing and data administration. Computer projects are used to give students hands-on experience developing business applications using Oracle in a Client-Server environment.

Fulfills the following degree requirement(s): BU - Oper Supply Chain conc

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Mgmt Info Systems (minor), Mgmt Info Systems Concentrn, Operations Concentrn

Must be the following Class(es): Junior, Senior

Prerequisite(s): BMIS 235

BMIS 443 Technology for Web/Mobile-based Business**credit(s): 3**

The objective of the course is to equip students with knowledge, skills and techniques for developing a minimally viable technical product (MVP) (i.e. a mobile/web app) as a pre-cursor to seeking funding to advance the idea further. Following the process of developing such products, students will be introduced to the tech-startup market, tech-startup business models, MVP product development, monetization through advertisements, segmenting customers for startups, and forming startup teams. This class is recommended for students who plan to start web-based businesses, or who want to join start-ups and need to understand the technical aspect of the business in order to communicate with the development team. Students will be expected to have Mac, Windows, or Linux computers that they can complete homework and projects on (detailed instructions on setup will be provided). Offered Fall, Spring

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): BMIS 235

BMIS 444 Information System Analysis and Design**credit(s): 3**

The full range of business software development is covered in this course, including concepts, tools and techniques in the analysis and design of business information systems. Students will gain experience working with software tools utilized throughout the Systems Development Life Cycle (SDLC). Although the course concentrates on the analysis phase of systems development, topics may include strategic planning, system development methodologies, project management, requirements development, data and process modeling using a software engineering CASE tool, object modeling using UML, application architecture, installation and evaluation techniques. Offered once per year in the Spring.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting, Business Administration, Mgmt Info Systems,

Must be the following Class(es): Junior, Senior

Prerequisite(s): BMIS 441

BMIS 445 Analytics Practicum**credit(s): 3**

for 3 credit.

The analytics practicum provides an opportunity for students to apply what they learn from the classroom to an analytics project in the real-world. Students will gain professional practical experiences by working on an analytics problem significant to a business/organization. The course requires students to integrate multiple technologies and domain knowledge to create and present a solution to the project sponsor. Offered once per year in the Fall

Prerequisite(s): BMIS 235

BMIS 489 Special Topic Seminar**credit(s): 1-3**

Course repeatable for 9 credit.

Credits by arrangement.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Freshman, Junior, Senior, Sophomore

Prerequisite(s): BMIS 235

BMIS 491 Directed Study**credit(s): 1-3**

Course repeatable for 6 credit.

An individually designed course of study appropriate to the student's concentration.

Prerequisites: junior or senior year standing, and department's permission. Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Marketing

Marketing emphasizes satisfying needs and wants through the facilitation of the exchange process between and among organizations and customers. Marketing concepts and techniques apply to all types of organizations, whether they are for profit or non-profit and whether providing goods, services, experiences or ideas to their customers. An organization's long-term success is determined by understanding customer preferences and perceptions as well as how they change. Marketing is also a critical link between organizations and their environment.

The topics studied include: gathering and interpreting market information, understanding customer decision processes and the influencers of these processes, target market decisions involving segmenting markets and positioning market offerings, marketing promotion and advertising, product design and modification, pricing, distribution of products, and effective managerial decision-making and planning.

Marketing is an essential, universal activity common to all individuals and organizations around the world, whether pursuing personal employment, seeking clients for an accounting firm, or in marketing supertankers or soap. Marketing knowledge and skills may lead to challenging and satisfying careers in nearly any field including such activities as sales and sales management, advertising and promotion management, retail management and buying, product development and management, public relations, industrial marketing, marketing research, and international marketing.

Marketing Concentration: 15 credits

MKTG 315 Consumer Behavior	3 credits
MKTG 330 Marketing Research	3 credits
MKTG 402 Marketing Communications	3 credits
MKTG 419 Marketing Strategy	3 credits
Choose one course from among the following courses:	3 credits
MKTG 300-400 level elective	
ECON 355 Regression Analysis	
EDPE 400 Sport Sponsorship and Promotions	
PRLS 310 Writing for Public Relations	
PSYC 310 Cognition	
PSYC 335 Social Psychology	

A promotion minor is offered to non-business majors through the School of Business.

Marketing Electives

MKTG 316 Fashion Marketing & Retailing	MKTG 410 Digital Marketing	ECON 355 Regression Analysis
MKTG 317 Promoting the Arts	MKTG 411 Digital Advertising	EDPE 400 Sport Sponsorship & Promotions
MKTG 318 Social Media Marketing	MKTG 415 New Product Development	PRLS 310 Writing for Public Relations
MKTG 319 Content Marketing	MKTG 417 International Marketing	PSYC 310 Cognition
MKTG 342 Graphic Design	MKTG 418 Personal Selling	PSYC 335 Social Psychology
	MKTG 420 Data Visualization	
	MKTG 421 Business Analytics	
	MKTG 489 Special Topics Seminar	
	MKTG 490 Promotion Project	

Courses:

MKTG 310 Principles of Marketing

credit(s): 3

This course provides an overview of the dynamics of marketing. The focus is the study of exchange and its facilitation for all types of products, both tangible and intangible. The functions, institutions, problems and philosophies of modern marketing are presented in survey form. The major areas of marketing decision-making are examined including: selecting and working with target markets, product development and management, promotion and marketing communication, pricing, and distribution. Fall and Spring.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting, Business Administration, Digital Marketing, Engineering Management, General Business, Promotion, Undeclared Business

Must not be the following Class(es): Freshman

Prerequisite(s):

MKTG 315 Consumer Behavior

credit(s): 3

Consumer behavior is the study of human responses to products and services and to the marketing of those products and services. The focus of the course is on achieving a deeper understanding of the psychological, social, cultural, and economic dimensions of consumer judgment and decision-making. Influence factors such as attitudes, personality, memory, motivation, perception, and reference groups are explored. In addition, ethical concerns in the field are considered.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Marketing, Promotion

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 316 Fashion Marketing and Retailing **credit(s): 3**

This course introduces students to the fundamental principles that govern fashion. The history of fashion trends is examined prior to a discussion of product development issues, distribution, pricing, and merchandising. The international economics of fashion and global competition are also explored. Florence only. On sufficient demand.

MKTG 317 Promoting the Arts **credit(s): 3**

This course will focus on promotion objectives, strategies, and plans for a range of arts and cultural non-for profit organizations including performing arts companies, ensembles, commercial art galleries, theaters, museums, symphonies, dance companies, as well as artist management. It will include business planning and budgeting, fund-raising, legal aspects of art administration (e.g. contracts), personnel, program development, marketing, long-range and strategic planning, and other aspects that inform and instruct decision-making in arts and cultural organizations today. Florence campus only.

MKTG 318 Social Media Marketing **credit(s): 3**

Students will learn the elements of a successful social media strategy as a component of a communications plan. The tactical implementation details associated with a social media strategy will also be an important component of the class e.g. social media measurement tools and calculation of return on investment.

Restriction(s):

Must be the following classes: Junior, Senior

Prerequisite(s): MKTG 310

MKTG 319 Content Marketing **credit(s): 3**

This course is designed to provide students with an advanced understanding of content marketing and its role in today's digital landscape. Students will learn how to create and implement an effective content marketing strategy that aligns with business goals and objectives. Topics covered in the course include content creation, distribution, promotion, and measurement. Students will also learn how to leverage different digital channels and platforms to reach and engage with target audiences.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 330 Marketing Research **credit(s): 3**

This course provides a general overview of marketing research. Students will be introduced to the analytical procedures and technology most widely employed by marketing professionals. Students will acquire an appreciation of the marketing research process and become knowledgeable users of information provided by this form of inquiry. Specific topics covered include: alternative methods of obtaining information, problem identification, research design, measurement scales, questionnaire construction, validity and reliability issues sampling error,

sampling procedures, statistics, computer data analysis, research reporting, and ethical dilemmas.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310 and BUSN 230 (or MATH 121)

MKTG 342 Graphic Design

credit(s): 3

The focus of this course is a survey of recent developments, styles, techniques, and theory of graphic design as a commercial art form. The class incorporates the use of professional computer software as a means to create effective visual communications.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion, Public Relations, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 402 Marketing Communications

credit(s): 3

This course examines the strategic use of various marketing communication elements including advertising, sales, promotion, public relations, personal selling, and direct marketing to build and maintain brand equity. Analysis will focus on topics such as selecting among alternative promotional tools, budgeting and allocation decisions, determining appropriate message strategy, and developing media schedules for a given product/market selection. Particular attention will be paid to the effective integration of elements across the promotional mix. Pre-requisite: MKTG 315 for marketing concentrations or promotions minors (Note that for digital marketing minors the pre-requisite is MKTG 310).

Equivalent(s): MKTG 335

Restriction(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 315

MKTG 410 Digital Marketing

credit(s): 3

The course will examine marketing strategies in light of the explosion of options for engaging customers in a marketplace landscape in which traditional and new media coexist. The course will explore the use of digital tools and techniques as part of an overall branding, advertising, and communications strategy. These include social media, search engine optimization, consumer-generated content, video and viral marketing, display and mobile advertising, interactive technologies, etc. Two themes that will cut across the course topics are 1) linking strategy and tactics and 2) measuring results.

Restriction(s):

Must be the following classes: Junior, Senior

Prerequisite(s): MKTG 310

MKTG 411 Digital Advertising**credit(s): 3**

This course explores the role of advertising in marketing strategy including advertising in a digital environment (e.g., e-mail solicitation, search engine advertising, and web design and content). Key topics include the communication process as well as basic practices and procedures of modern media. In addition, the course focuses on the application of advertising principles to the development of advertising objectives, strategy formulation, budgeting, media selection, copy testing, and evaluating advertising results. Regulatory, social, and ethical dimensions of advertising are also explored.

Pre-requisite: MKTG 310

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion, Public Relations, Undeclared Business

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 415 New Product Development**credit(s): 3**

Class discussion and experiential projects are used to demonstrate methods which enhance the value created by new products. Idea assessment, product design, test marketing, and the implementation procedures necessary to successfully introduce a new product are discussed. Issues surrounding why new products fail and how brand image can be effectively managed and legally protected are also presented. On sufficient demand.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Accounting, Business Administration, Digital Marketing, Promotion

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 416 Retail Management**credit(s): 3**

The practice and theory of retail assortment planning, buying, facility layout, profit management, and site location are studied. The use of the internet to enhance customer relationship management and the globalization of the retail industry are also examined. On sufficient demand.

Restriction(s):

Must be in the following College/School(s): College of Arts and Sciences, School of Business Administration

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 417 International Marketing**credit(s): 3**

This course provides an introduction to international marketing concepts and their application to various business situations. The course emphasizes principles and practices of marketing in the contemporary global environment. It is designed to enhance students' knowledge about current developments in international business. The material covers both U.S. and foreign

companies doing business in various countries around the world. The course considers the marketing perspectives that allow increased interaction with global markets. Techniques, operations, and ethical dilemmas that are unique to international marketing will be discussed.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 418 Personal Selling

credit(s): 3

This class examines the selling process. The basic principles underlying all types of selling and the practical applications of these principles to various selling situations are presented. In addition, an introduction to sales management issues such as recruitment, selection, training, motivation, compensation, sales analysis, and evaluation is provided.

Pre-requisite: MKTG 310

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 419 Marketing Strategies

credit(s): 3

This is an integrative, capstone course in marketing. This course focuses on developing and implementing marketing strategies and determining their impact on customer satisfaction and profitability. The course emphasizes systematic analysis of marketing problems and exercising good decision-making when faced with such problems. The core competencies to be developed in the course are the enhanced understanding of the marketing management process, marketing analysis, and decision-making, and the ability to formulate marketing strategy.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Marketing

Must be the following Class(es): Senior

Prerequisite(s): MKTG 315 and MKTG 330 and MKTG 310

MKTG 420 Data Visualization

credit(s): 3

The amount of data available in business has increased and this has led to an emphasis on data-driven decision making. In this course, students will learn how to acquire, clean, and manipulate data for creating effective data visualizations. The focus will be on the creation of visual displays of data to understand and explore them and to communicate research findings. It will also address the cognitive bases of effective visualizations and introduce students to a set of static and interactive visualization tools within the open-source R statistical software environment.

MKTG 421 Business Analytics

credit(s): 3

The course provides students with an analytics tool-kit to complement their business knowledge, which would enable them to be better decision makers. It will cover topics such as ANOVA, Multiple Regression, Logistic Regression, Lift Charts, Decision Trees, Artificial Neural

Networks, Principal Components Analysis and Cluster Analysis. Students will use open-source software tools, predominantly using R, to implement these analytical procedures.

Prerequisite(s): (ACCT 260 and ACCT 261) or ACCT 260) and BMIS 235 and ((ECON 201 and ECON 202) or ECON 200) and BUSN 230

MKTG 489 Special Topic Seminar

credit(s): 2-3

Course repeatable for 9 credit.

Credit by arrangement.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 490 Promotion Project

credit(s): 1-3

Course repeatable for 12 credit.

Members of the class form a marketing agency for an outside company or organization. Over the course of the project, the class designs and implements a promotional campaign, manages a budget, conducts market research, makes an agency-style presentation to the client, and develops a professional recap book which reports the results of the campaign. This course can help the student improve skills in marketing, public relations, human resources and operations management, communications, business writing, public speaking, event planning, time management, group dynamics, and teamwork. Open to all concentrations. Enrollment by permission only.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): MKTG 310

MKTG 491 Directed Study

credit(s): 0-3

Course repeatable for 3 credit.

An individually designed course appropriate to the student's concentration. Directed study requires completion of an application form and departmental permission. Zagweb registration not available. Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration, Digital Marketing, Promotion

Must be the following Class(es): Junior, Senior

Operations and Supply Chain Management

The growth of e-commerce, increased global competition, and advances in information technology are some of the forces behind the ongoing need to eliminate waste and add value throughout a product's or services' supply chain. The Operations and Supply Chain Management (OSCM) concentration examines how a firm can establish and enhance the operational core competencies required by demanding consumers in a dynamic marketplace.

This concentration prepares students for the challenges of tomorrow's business environment by providing them with the technical, informational, and managerial skills needed to manage and improve an integrated system of productive processes. Career opportunities exist with organizations that provide or are dependent on fast, low-cost, accurate, and uniform flows of products, services, and information. Examples of career opportunities include consulting, logistics, manufacturing, health services, government, retail and insurance, and banking.

Operations and Supply Chain Management Concentration: 12 credits

Two courses selected from the following four: 6 credits

- OPER 345 Service Operations
- OPER 346 Project and Process Management
- OPER 347 Lean Thinking
- OPER 348 Quality Management and International Standards

One course selected from the following seven: 3 credits

- MKTG 415 New Product Development
- BFIN 327 International Finance
- BMIS 441 Database Management
- OPER 345 Service Operations
- OPER 346 Project and Process Management
- OPER 347 Lean Thinking
- OPER 348 Quality Management and International Standards

Capstone course:

OPER 440 Global Operations and Supply Chain Management 3 credits

Courses:

OPER 340 Operations Management credit(s): 3

This foundation course provides an understanding of the strategic and tactical role of operations management in building and maintaining a firm's core competencies. A significant emphasis is placed on discussing the impact of technology and globalization on creating and enhancing value from both the producer and consumer's perspective. This hybrid course uses a combination of lectures, Blackboard.com exercises, computer lab projects and group projects to ensure an understanding of basic concepts. Upon completion of the course students will possess the requisite skills to create and sustain the operational core competencies required to compete in a global marketplace. Fall and Spring.

Restriction(s):

Must not be in the following College/School(s):

Must be the following Class(es): Sophomore, Junior, or Senior

Prerequisite(s): BUSN 230 or MATH 121 or MATH 321

OPER 345 Service Operations credit(s): 3

This course introduces business students to service operations and attempts to familiarize them with the distinctive characteristics of service organizations and how to successfully manage them. Discussion includes, but is not limited to, such topics as the role and nature of services, competitive environment of services and competitive service strategies, service design, managing service operations, and globalization of services. Spring

Fulfills the following degree requirement(s): BU - Oper Supply Chain conc

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 346 Project Management credit(s): 3

This operations skills course provides students with the requisite skills necessary to manage a wide range of projects including: project planning, task scheduling, resource management, and project reporting. The course provides students the knowledge of how to use MS Project to plan and control multiple projects utilizing finite resources. Spring

Fulfills the following degree requirement(s): BU - Oper Supply Chain conc

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 347 Lean Thinking credit(s): 3

This operations strategy course focuses on lean systems whose functions include elimination of waste, reducing costs, shortening cycle times, quality improvement, optimization of socio-technical systems, and the process of continuous improvement. The course provides a focused perspective on lean applications in operations and management. The course also extends the benefits of lean thinking outward from the factory floor to encompass the organization and supply chain. The principles of lean thinking are applied to make-vs-buy decision, product and

process design, relationship and organizational management, service operations, and environment conscious operations. Fall

Fulfills the following degree requirement(s): BU - Oper Supply Chain conc

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 348 Quality Management and International Standards **credit(s): 3**

This course provides an introduction to management practices aimed at quality improvement and international quality standards as applied to productive systems throughout a product's global supply chain. Topics include product and process design for quality and reliability, vendor selection and quality defect prevention throughout the supply chain, control and improvement of process capability for all supply chain processes, ISO 9000 and ISO 14000 standards, and customer relationship management. Fall

Fulfills the following degree requirement(s): BU - Oper Supply Chain conc

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 440 Global Operations and Supply Chain Management **credit(s): 3**

This course examines the role of technology and the impact of globalization on creating value from both the producer and consumer's perspectives. Learning objectives include understanding how cultural and contextual differences affect the efficiency and effectiveness of global operations, and how developing a global supply chain creates a sustainable competitive advantage. The course uses a combination of lectures, internet exercises, case analysis, field research and group projects. This course counts toward three credits of international requirements (BU-International) for business majors. Fall and Spring

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 489 Special Topic Seminar **credit(s): 1-4**

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

OPER 491 Directed Study

credit(s): 1-3

Course repeatable for 6 credit.

Directed study requires completion of a form and departmental permission. Zagweb registration not available. Summer only.

Restriction(s):

Must be in the following College/School(s): School of Business Administration

Must be in the following Major(s): Business Administration

Must be the following Class(es): Junior, Senior

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): OPER 340

Business Minors

Minors for all majors, including Business and Accounting:

Digital Marketing	24 credits
Economics	18 credits
Sustainable Business	26 credits

Minors for Non-Business Majors:

Analytical Finance	27-28 credits
Entrepreneurship and Innovation	18 credits
General Business	24 credits
Management Information Systems	17 credits
Promotion	18 credits
Engineering Technologies	21 credits
Human Resource Management	18 credits

Minor in Analytical Finance: 18 credits

The minor in analytical finance is intended for students with a secondary interest in either general corporate finance or investments. This field of study may be particularly useful to two groups of students: 1) mathematics majors interested in actuarial science careers and 2) those interested in a more finance-oriented minor than the general business minor program offers. Completion of ACCT 260, ECON 201, and one three-credit course in statistics with a minimum GPA of 2.00 and no lower than a C- in any one class is required to enroll in upper division courses required in the minor.

Lower Division

ACCT 260 Principles of Accounting I	3 credits
ACCT 261 Principles of Accounting II	3 credits
ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits
One of the following two courses	3-4 credits
MATH 114 Mathematical Analysis for Business	
MATH 157 Calculus and Analytical Geometry	
One of the following two courses:	3 credits
BUSN 230 Business Statistics	
MATH 321 Statistics for Experimentalists	

Upper Division

BFIN 320 Principles of Finance	3 credits
BFIN 322 Intermediate Finance	3 credits
BFIN 422 Investment Analysis	3 credits

Minor in Business for Engineering Technologies: 21 credits

This minor is designed for engineering students (at present, students in the civil engineering and engineering management disciplines) at the undergraduate level. It recognizes the career skills employers are looking for in engineers pursuing engineering and construction management roles.

Required courses (15 credits)

ECON 200 Economic Analysis	3 credits
MATH 321 Statistics for Experimentalists	3 credits
ACCT 263 Accounting Analysis	3 credits
BFIN 320 Principles of Finance	3 credits

Elective courses (6 credits) *choose two courses below*

MKTG 310 Principles of Marketing	3 credits
ECON 324 Economics of Environmental Protection	3 credits
OPER 340 Operations of Management	3 credits
MGMT 350 Principles of Management	3 credits
ENSC 405 Engineering Project Management	3 credits
BENT 490 Creativity, Innovation, and Entrepreneurship	3 credits

Minor in Digital Marketing: 24 credits

Digital marketing is the present and future of marketing. Students with digital marketing knowledge and skills are well-positioned to succeed in modern marketing and e-commerce careers. The minor is designed to develop skills in content marketing, social media marketing, search engine optimization, web analytics, mobile marketing, app development, and more. This minor pairs particularly well with business concentrations in marketing, MIS, and entrepreneurship. Students majoring in fields such as integrated media, public relations, communications, computer science, journalism, English, art, and psychology might also find the minor helpful in their professional pursuits.

Lower Division

BMIS 245 Technological Foundation of Digital Marketing	3 credits
MKTG 310 Principles of Marketing	3 credits
BMIS 443 Technology for Web and Mobile-based Business	3 credits
MKTG 402 Integrated Marketing Communications	3 credits
MKTG 410 Digital Marketing	3 credits
One of the following three courses:	3 credits
MKTG 330 Marketing Research	
MKTG 420 Data Visualization	
MKTG 421 Business Analytics	
One of the following two courses:	3 credits
INMD 360 Media Law	
BMIS 331 Problem Solving & Programming Techniques	
One of the following three courses:	3 credits
MKTG 318 Social Media Marketing	
MKTG 319 Content Marketing	
MKTG 411 Digital Advertising	

NOTE: All upper division MKTG courses require a prerequisite of MKTG 310.

Minor in Economics: 18 credits

Lower Division

ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits

Upper Division

ECON 302 Intermediate Macroeconomics	3 credits
Two of the following two courses	6 credits
ECON 301 Intermediate Microeconomics	
ECON 320-340 Applied Microeconomics courses	
any upper division ECON elective	3 credits

Minor in Entrepreneurship and Innovation: 18 credits

Any non-business student can earn a Minor in Entrepreneurship and Innovation through a curriculum incorporating fundamentals of business and entrepreneurial subjects. From idea generation, and opportunity seeking behavior, the program takes students through the entrepreneurial process and provides a body of thought which may compliment their major studies.

Lower Division

One of the following two courses	3 credits
ACCT 260 Principles of Accounting I	
ACCT 263 Accounting Analysis	
One of the following two courses	3 credits
ECON 200 Economic Analysis	
ECON 201 Microeconomics	

Upper Division

BENT 490 Creativity, Innovation and Entrepreneurship	3 credits
BENT 491 Creating New Ventures	3 credits
One of the following two courses	3 credits
BENT 492 Technology Entrepreneurship	
BENT 493 Social Entrepreneurship	
One of the following four courses	3 credits
BENT 494 Small Business Consulting	
BUSN 491 Startup Accelerator	
BUSN 470 Multidisciplinary Action Projects	
BMIS 443 Tech for Web/Mobile Based Bus.	

General Business Minor: 26 credits

Completion of ACCT 260-ACCT 261 (or ACCT 263), ECON 201-ECON 202 (or ECON 200) and one three-credit course in statistics with a minimum average GPA of 2.00 and a grade no lower than C- in any one class, must be earned to complete the minor program.

Lower Division

BUSN 111 Business Computing	2 credits
One of the following combinations	3-6 credits
ACCT 263 Accounting Analysis	3 credits
ACCT 260-ACCT 261	6 credits
One of the following combinations	3-6 credits
ECON 200 Economic Analysis	3 credits
ECON 201-ECON 202	6 credits
BUSN 230 Business Statistics or MATH 321	3 credits

Upper Division

MKTG 310 Principles of Marketing	3 credits
BFIN 320 Principles of Finance	3 credits
MGMT 350 Principles of Management	3 credits
Electives:	0-6 credits
BMIS 235 Management Information Systems	
BUSN 283 Business Law	
OPER 340 Operations Management	

Minor in Human Resource Management: 18 credits

This minor is designed for non-Business and non-Accounting majors. The minor helps students learn how to manage their own careers and help others succeed in the workplace.

Lower Division (3 credits) *choose one of the following five courses*

BUSN 230 Business Statistics
SOCI 202 Statistics for Social Science
PSYC 202 Statistics for Psychology
MATH 121 Introductory Statistics
MATH 321 Statistics for Experimentalists

Upper Division (15 credits) *all five courses required

MGMT 350 Principles of Management	3 credits
MGMT 400 Recruitment and Selection	3 credits
MGMT 405 Compensation and Performance Appraisal	3 credits
MGMT 410 Training and Development	3 credits
MGMT 415 Employment	3 credits

Minor in Management Information Systems: 17 credits

The world has moved into the information age. Information technology and its applications affect every walk of life by improving the productivity of individuals. As a result, social, economic, and organizational structures change rapidly. The minor in management information systems is intended for all non-business students, especially those in computer science and engineering degree programs, to have a basic understanding of how business operates and how information systems affect today's organizations.

Lower Division

BUSN 111 Business Computing*	2 credits
BMIS 235 Management Information Systems**	3 credits

Upper Division

BMIS 331 Problem-Solving and Programming Techniques	3 credits
BMIS 342 Data Analytics for Business	3 credits
BMIS 441 Database Management	3 credits
BMIS 444 Information Systems Analysis and Design	3 credits

*BUSN 111 may be waived in some cases. See the Associate Dean for more information.

**BUSN 111 is a prerequisite for BMIS 325

Minor in Promotion: 18 credits

The minor in promotion is offered to non-business majors. The focus is how to communicate effectively and efficiently through a variety of methods with any target audience. Students must complete three required courses as well as three courses from the approved elective courses listed below.

Required Courses (9 credits)

MKTG 310 Principles of Marketing	3 credits
MKTG 315 Consumer Behavior	3 credits
MKTG 402 Marketing Communications	3 credits

Approved Elective Courses

9 credits

- MKTG 318 Social Media Marketing
- MKTG 319 Content Marketing
- MKTG 342 Graphic Design
- MKTG 410 Digital Marketing
- MKTG 411 Digital Advertising
- MKTG 418 Personal Selling
- MKTG 490 Promotion Project*

*with marketing faculty approval

PRLS 310 Writing for Public Relations

PRLS 460 Public Relations Campaign

Students desiring to pursue this minor should meet with a School of Business advisor early in their program to ensure development of a course sequencing plan. MKTG 310 is a prerequisite for most other marketing courses. MKTG 315 is a prerequisite for MKTG 402.

Sustainable Business Minor: 26 credits

This minor is designed primarily for business majors who want to learn more about environmental issues, but the minor would be available to anyone at Gonzaga University. Students earning a Sustainable Business minor would be required to take courses from both the School of Business Administration and the Environmental Studies Department within the College of Arts & Sciences. The intention is to have these courses work together across disciplines to give students the necessary background in both business and environmental studies.

Lower Division

ENVS 101 Introduction to Environmental Studies	3 credits
One of the following sciences courses with lab	4 credits
ENVS 103/ ENVS 103L Environmental Biology	
ENVS 104 /ENVS 104L Environmental Chemistry	
ENVS 200 Case Studies in Environmental Science	4 credits
ECON 201 Microeconomics	3 credits

Upper Division

BENT 493 Social Entrepreneurship	3 credits
BUSN 430 Sustainable Business	3 credits
ECON 324 Economics of Environmental Protection	3 credits
One the following courses:	3 credits
ENVS 358 Environmental Ethics	
ENVS 352 Ethics of Eating	

School of Education

Dean: Yolanda Gallardo

Associate Dean: Joe Engler

Professors: A. Barretto, E. Bennett, A. Case, M. Derby, J. Engler, C. Garner, S. Girtz, J. Hunter, J. Traynor, K. Weber

Associate Professors: N. Barta, B. Burrus, J. Cox, R. McKinney, D. Nieding, K. Nitta, M. Person, E. Radmer, K. Rickel, J. Smith, R. Turcott, A. Wissel, M. Young

Assistant Professors: A. Ariyo, C. Basile, A. Kim, D. O'Brien, D. Sisci-Taylor, C. Zeisner

Lecturers: J. Neyman,

Emeritus/Emerita

Professors: J. Burcalow (Emerita), A. Fein (Emeritus), D. Mahoney (Emeritus), T. F. McLaughlin (Emeritus), J. Abi-Nader (Emerita), J. Nelson (Emerita), R. Williams (Emeritus)

Associate Professors: R. Bialozor (Emeritus), J. D'Abov (Emeritus), J. Dixon (Emerita), P. Hastings (Emeritus), M. Jeannot (Emerita), C. Johnson (Emerita), (Emerita), C. Salina (Emeritus), J. Shepard (Emerita), J. Sunderland (Emeritus), D. Tunnell (Emerita)

School of Education Mission Statement

The mission of the School of Education is to prepare socially responsive and discerning practitioners to serve their community and profession.

- We model and promote leadership, scholarship and professional competence in multiple specializations.
- We support an environment that is challenging, inclusive, reflective, and collegial.
- We foster inquiry, intellectual creativity, and evidence-based decision making to accept the challenges facing a global society.
- We provide academic excellence in teaching, advising, service, and scholarship.
- We promote, support and respect diversity.

The School of Education upholds the tradition of humanistic, Catholic, and Jesuit education and this tradition and mission are embodied in our theme statement: **Preparing socially responsible professionals who serve with Care, Competence and Commitment.**

Programs of Study

The School of Education offers four undergraduate degrees:

- Bachelor of Education (B.Ed.) in Community, Culture, and Language
- Bachelor of Education (B.Ed.) in Kinesiology
- Bachelor of Education (B.Ed.) in Special Education
- Bachelor of Education (B.Ed.) in Sport Management

Degree Requirements for the School of Education

Students must complete the general degree requirements of the University, including the University Core curriculum, and the requirements of their major.

Please note: Every degree requires a minimum of 128 completed semester credits. No core, major, minor, or concentration courses may be taken under the Pass/Fail option.

Certification

Additionally there is a Teacher Certification program that enables students to obtain initial (Residency) certification within the state of Washington. The School also offers initial and advanced certification for teachers, and school administrators at the graduate level. Further information on these programs can be found in the graduate catalog.

Accreditation

All teacher preparation degree programs, and elementary, secondary, and advanced certification programs in the School of Education are fully approved by the Washington state Professional Educator Standard Board (PESB).

Notice

While this catalog provides students with the most current information regarding School of Education undergraduate programs, students are advised that programmatic changes are a common occurrence in the field of education and are usually the result of directives from the Washington State Office of the Superintendent of Public Instruction (OSPI) and outside accreditation agencies. The School of Education takes seriously its responsibility to communicate all changes to education students. Students must be sure to meet with their education advisors regularly to complete a plan of study in compliance with current regulations.

Special Education and Applied Behavior Analysis

Chairperson: Dr. Kimberly Weber

The department offers one degree with an optional concentration and one minor:

Bachelor of Education in Special Education

Board Certified Assistant Behavior Analyst (BCaBA)

Minor in Special Education

Students have several options in completing the major. Students may complete the major by itself or with our BCaBA concentration, complete the major and add teacher certification in Special Education (SpEd), complete the major and add SpEd teacher certification along with other certification areas (like elementary education, Math, English, Spanish, etc.), or complete our BCaBA verified course sequence.

The Special Education Department offers a major and minor that emphasizes experiential learning in applied settings. As a part of the program, students gain experience in public or private schools, as well as a variety of non-school settings. These experiences provide students the opportunity to combine academic training with practical/career development. Candidates who earn the Bachelor of Education degree with a major in Special Education are prepared to work with individuals having mild to severe disabilities, such as learning disabilities, autism, pervasive developmental disabilities, and behavior disorders. Majors seeking teacher certification take courses that focus on developing skills needed to function in a variety of classrooms including but not limited to resource, self-contained, and inclusionary (This is an optional component.). The Special Education Department also prepares candidates who plan to work in non-school settings like clinics, workshops, homes, etc. Courses for those seeking BCaBA certification are also an option. In addition, the Special Education degree is a great starting point for those seeking advanced degrees in behavior analysis, speech and language pathology, occupational therapy, mental health counseling, school counseling, marriage and family counseling, and/or school psychology.

State of Washington teaching requirements indicate that certification in Special Education (SpEd) and Early Childhood Special Education (ECSpEd) are stand-alone endorsements. Although not required, many candidates choose to add a second endorsement. Special Education students often add elementary, reading, early childhood special education, and/or ELL endorsements among others. Two departmental endorsements (SpEd and ECSpEd) may be earned through completion of the B.Ed. The Special Education endorsement permits teaching special needs students preschool through age 21. The ECSpEd endorsement permits teaching special needs student's birth through third grade. Students seeking teacher

certification complete courses beyond what is required for the major to meet program completion requirements. It is best to meet with your Special Education advisor to make sure you are taking the necessary coursework. All students majoring in special education who wish to become endorsed to teach special education in the State of Washington must:

1. Complete required coursework in line with the Special Education Major.
2. Earn a grade of "Satisfactory" (S) for all required field placement courses.
3. Take a basic skill assessment in each of the following categories: Reading, Writing, and Math by taking the SAT, ACT, and/or WEST B prior to being admitted to the certification program. Those who have not completed this requirement are prohibited from student teaching.
4. Complete an application for and obtain acceptance into the teacher certification program.
5. Obtain and maintain WSP/FBI clearance throughout all field experiences including student teaching.
6. Create and maintain an eCertification PreResidency Clearance Account throughout the program.
7. Take the West-E/NES exam in Special Education or another endorsement area prior to student teaching.
8. Receive a C or better for all courses required for certification.

Candidates who wish to become endorsed in Early Childhood Special Education must complete all the requirements above as well as the following:

1. Complete the series of four courses specifically addressing critical issues, background, and pedagogy for early development, methodology, physical development, and communication (EDSE 350, EDSE 351, EDSE 352, and EDSE 353) with a grade of C or better.
2. Complete student teaching in an Early Childhood Special Education classroom or complete student teaching in another area and complete an additional practicum placement in an ECSpEd classroom for a minimum of 120 hours.

All Gonzaga University students may enroll in EDSE 101, 102, 150, 306, 307, 320, 335, 340, 344, 346, 406, or 407. All other upper division courses require official acceptance into the major or minor in special education. Acceptance and continuance in the major or minor are dependent on an overall Gonzaga GPA of at least a 3.00; a 3.00 average or higher in EDSE 150 and 320; a minimum of 3.00 in EDSE 320; a pass and positive evaluations in EDSE 306, 307, 406, or 407; recommendation by the advisor; and approval by the faculty in the Department of Special Education.

B.Ed. Major in Special Education: 38 Credits

Lower Division

EDSE 150 Psychology of Children with Exceptionalities 3 credits

Upper Division

One of the following two courses: 1 credit

EDSE 306 In-School Experience: Elementary

EDSE 307 Special Education Application: Children

EDSE 320 Applied Behavior Analysis 3 credits

EDSE 465 Classroom Management 3 credits

One of the following two courses: 1 credit

EDSE 406 In-School Experience: Secondary

EDSE 407 Special Education Application with Adults

Three of the following five courses: 9 credits

EDSE 340 Special Education Policies and Procedures

EDSE 410 Precision Teaching (pre-requisite EDSE 465)

EDSE 417 Assessment in Special Education

EDSE 451 Direct Instruction: Reading

EDSE 452 Direct Instruction: Mathematics

One of the following three courses: 9-13 credits

EDSE 495 Extended Application of Special Education Experience

EDSE 496 Special Education Student Teaching Practicum

EDSE 497 Extended Special Education Student Teaching Practicum

EDSE Electives: 101 level or above 9 credits

B.Ed. Major in Special Education BCaBA: 46 Credits

Lower Division

EDSE 150 Psychology of Children with Exceptionalities 3 credits

Upper Division

One of the following two courses: 2 credits

EDSE 407 Special Education Application with Adults

EDSE 307 Special Education Application: Children

EDSE 320 Applied Behavior Analysis 3 credits

EDSE 340 Special Education Policies and Procedures 3 credits

EDSE 352 Language and Communication 2 credits

EDSE 352L Language and Communication Lab 1 credit

EDSE 410 Precision Teaching (pre-requisite 465) 3 credits

EDSE 417 Assessment in Special Education 3 credits

EDSE 465 Classroom Management 3 credits

EDSE 469 BCaBA Ethics in Behavior Analysis 1 credit

EDSE 470 Functional Analysis Seminar 3 credits

One of the following two courses:	1 credit
EDSE 306 In-School Experience: Elementary	
EDSE 406 In-School Experience: Secondary	
EDSE 495 Extended Application of Special Education Experience	9 credits
Electives	9 credits

Minor in Special Education: 23-24 Credits

Lower Division

EDSE 150 Psychology of Children with Exceptionalities	3 credits
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Upper Division

One of the following two courses:	1 credit
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 EDSE 306 In-School Experience: Elementary

 EDSE 307 Special Education Application: Children

One of the following two courses:	1 credit
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 EDSE 406 In-School Experience: Secondary

 EDSE 407 Special Education Application with Adults

One of the following combinations:	3-4 credits
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EDSE 320/ EDSE 320L Applied Behavior Analysis and Lab	3 credits
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PSYC 470 Behavior Analysis (Psychology Majors)	4 credits
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One of the following six courses:	3 credits
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 EDSE 340 Special Education Policies and Procedures

 EDSE 410 Precision Teaching (pre-requisite EDSE 465)

 EDSE 417 Assessment - Special Education

 EDSE 451 Direct Instruction: Reading

 EDSE 452 Direct Instruction: Math

 EDSE 465/EDSE 465L Classroom Management and Lab

Any two EDSE courses not yet taken (including elective courses)	6 credits
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EDSE 495 Extended Special Education Experience (180 hours)	6 credits
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Courses:

EDSE 101 American Sign Language I and Culture credit(s): 3

This course is open to all students regardless of major. In this fun, interactive class, students will learn how to correctly perform the manual alphabet, numbers, and develop a 750-sign vocabulary. Students will learn the syntax of American Sign Language and how it differs from other signing systems and spoken English. In addition, students will learn history of the Deaf and how it has shaped Deaf culture. This course will be conducted using a variety of instructional modes including but not limited to in-person demonstration/lecture and online reflection/discussion formats. This course partially fulfills Gonzaga's A&S language requirement.

In addition to successfully completing this course (EDSE 101), EDSE 102 must be successfully completed to meet the language requirement.

EDSE 102 American Sign Language II and Culture credit(s): 3

This course is designed to integrate a multidisciplinary approach in extending content regarding deaf culture, history, politics, popular culture, impacts of society and dominant culture, discrimination, etc. Students will also continue to advance to the intermediate low level or the Survival Plus level as specified on the Sign Language Proficiency Interview (SLPI) rating scale. Students entering this class must already have successfully completed EDSE 101 or another beginning level American Sign Language (ASL) course or equivalent. This course partially fulfills Gonzaga's A&S language requirement. In addition to successfully completing this course (EDSE 102), EDSE 101 must be successfully completed to meet the language requirement or other approved content.

Prerequisite(s): EDSE 101

EDSE 150 Psychology of Children with Exceptionality credit(s): 3

This course covers litigation and legislation affecting students with special needs, the basic handicapping conditions and how they relate to the education process. Basic remediation strategies will be discussed, as well as historical, medical, and psychological perspectives of the various disabilities.

Fulfills the following degree requirement(s): Core: Social/Behavioral Sci

EDSE 215 Registered Behavior Technician Training credit(s): 3

This course is designed to meet the 40 hour Registered Behavior Technician (RBT) training requirements outlined by the Behavioral Analysis Certification Board (BACB). Students will complete tasks and practice in the following areas related to the RBT 2nd ed task list (i.e., measurement, assessment, skill acquisition, behavior reduction, documentation and reporting, and professional conduct and scope of practice).

EDSE 306 In School Experience Elementary credit(s): 1-3

Course repeatable for 3 credit.

Students spend 30 hours (per credit taken) assisting a Special Education teacher in an elementary or preschool level classroom. Placements are arranged through the instructor. Students are required to obtain FBI clearance prior to placement approval.

EDSE 307 Special Education Application credit(s): 1-3

Course repeatable for 3 credit.

Students complete 30 supervised hours (per credit taken) working directly with the individuals with disabilities in non-school settings. Arrangements are made with the instructor.

EDSE 320 Applied Behavior Analysis credit(s): 3

The basic principles of learning and procedures of Applied Behavior Analysis are presented. Techniques of Behavior Analysis such as effective teaching of diverse populations, objective measurement, experimental design, evaluation, and social validity are discussed in detail. A variety of real-life situations are examined.

Corequisite(s): EDSE 320L

EDSE 320L Applied Behavior Analysis Lab credit(s): 0

This lab course is a co-requisite of EDSE 320. There are two primary components of the lab. One is to remediate and assist students with difficult concepts presented in EDSE 320 and the

other is to focus on the development, implementation, write-up, and presentation of an applied research project.

Corequisite(s): EDSE 320

EDSE 335 Autism **credit(s): 3**

This course presents the etiology, diagnosis, and treatment of Autism Spectrum Disorders. Emphasis is placed on the various successful remediation techniques for children and youth.

EDSE 340 Special Education Policies and Procedures **credit(s): 3**

The legal and ethical questions regarding least restrictive environments (LRE) are examined in detail. Emphasis is placed on developing individualized education programs, communicating with parents and staff, and issues of due process. Recent research regarding LRE are reviewed.

EDSE 344 Social, Emotional & Behavior Disorders **credit(s): 3**

This course will examine the neurodiversity within individuals with social, emotional, and behavioral disorders (SEBD) across life stages from birth through adulthood. A major focus will analyze the etiology (causes), diagnosis procedures, characteristics, and treatments and evidence-based practices associated with high-incidence social, emotional, and behavioral disorders. This course will also explore Multi-Tiered Systems of Support (MTSS) and Positive Behavior Interventions and Supports (PBIS) frameworks. Students will research and share current issues, support opportunities, and advocacy for SEBD. A primary goal will be for students to build connections from course content with their community through a book club and community engaged learning placement. Students in this course will develop a comprehensive skillset for their future teaching/working with individuals with SEBD across a variety of settings including classrooms.

EDSE 346 Teaching Students with Learning Disabilities **credit(s): 3**

The various practical classroom techniques to measure and remediate learning disabilities are presented. The course focuses on techniques of practical use for the special and regular classroom teacher.

EDSE 350 Early Childhood Special Education **credit(s): 2**

This course overviews the principles and practical procedures involved in integrated preschool services for children with disabilities. Applied experience is provided in an integrated preschool setting. Prerequisite: Admission to the program.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 350L

Prerequisite(s): EDSE 150 and EDSE 320, minimum grade: B

EDSE 350L Early Childhood Special Education Lab **credit(s): 1**

In conjunction with EDSE 350: Early Childhood Special Education, this course offers practical experience for candidates in an on-site lab preschool serving preschoolers (3-to 5-year-olds) with and without disabilities. This course's focus is to apply theory introduced in the lecture portion (EDSE 350) to real-life educational settings. This lab will focus on typical cognitive development, showing candidates how to observe and assess performance levels. Then, candidates will be taught ongoing assessment measures and effective instructional strategies to improve developmental skills, especially across pre-academic/cognitive areas such as reading, writing, and math. Candidates will create lessons across developmental domains integrating theoretical knowledge with practical experience. Plus, candidates will implement evidence-

based procedures for academic, language, social, and motor skills and learn to accurately assess child performance.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 350

EDSE 351 Physical Development

credit(s): 2

This course examines normal physical and neuro-motor development with an emphasis on methods for identifying and treating delayed or dysfunctional development. Applied experience is provided in an integrated preschool setting.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 351L

Prerequisite(s): EDSE 150 and EDSE 320, minimum grade: B

EDSE 351L Physical Development Lab

credit(s): 1

In conjunction with EDSE 351: Physical Development, this course offers practical experience for candidates in an on-site lab preschool serving preschoolers (3-to 5-year-olds) with and without disabilities. This course's focus is to apply theory introduced in the lecture portion (EDSE 351) to real-life educational settings. This lab will focus on typical physical development (gross and fine motor), showing candidates how to observe and assess performance levels. Then, candidates will be taught ongoing assessment measures and effective instructional strategies to improve developmental skills, especially across gross and fine motor areas. Candidates will create lessons across developmental domains integrating theoretical knowledge with practical experience. Plus, candidates will implement evidence-based procedures for academic, language, social, and motor skills and learn to accurately assess child performance.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 351

EDSE 352 Language and Communication

credit(s): 2

This course examines the principles of normal language development as well as educational guidance for facilitating functional language development in infants, toddlers, and preschoolers. The focus is on intervention programs designed for enhancing generalization of functional language usage. Applied experience is provided in an integrated preschool setting.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 352L

Prerequisite(s): EDSE 150 and EDSE 320, minimum grade: B

EDSE 352L Language and Communication Lab

credit(s): 1

In conjunction with EDSE 352: Language and Communication, this course offers practical experience for candidates in an on-site lab preschool serving preschoolers (3- to 5-year-olds) with disabilities and those without. This course's focus is to apply theory introduced in the lecture portion (EDSE 352) to real-life educational settings. This lab will focus on typical language and social development, showing candidates how to observe and assess performance levels. Then, candidates will be taught ongoing assessment measures and effective instructional strategies to improve developmental skills, especially language and social. Candidates will

create lessons across developmental domains integrating theoretical knowledge with practical experience. Plus, candidates will implement evidence-based procedures for academic, language, social, and motor skills and learn to accurately assess child performance.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 352

EDSE 353 Development of Children with Exceptionality

credit(s): 2

This course examines normal child development and etiology of exceptionalities from infancy through age six. History and philosophy of early childhood special education, as well as relevant legislation, are studied. Applied experience is provided in an integrated preschool setting.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 353L

Prerequisite(s): EDSE 150 and EDSE 320, minimum grade: B

EDSE 353L Development of Children with Exceptionality Lab

credit(s): 1

In conjunction with EDSE 353: Development of a Child with Exceptionalities, this course offers practical experience for candidates in an on-site lab preschool serving preschoolers (3- to 5-year-olds) with disabilities and those without. This course's focus is to apply theory introduced in the lecture portion (EDSE 353) to real-life educational settings. This lab will focus on adaptive and play development, showing candidates how to observe and assess performance levels. Then, candidates will be taught ongoing assessment measures and effective instructional strategies to improve developmental skills, especially adaptive and play. Candidates will create lessons across developmental domains integrating theoretical knowledge with practical experience. Plus, candidates will implement evidence-based procedures for academic, language, social, adaptive, play, and motor skills and learn to accurately assess child performance.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Corequisite(s): EDSE 353

EDSE 390 Directed Study

credit(s): 1-3

Course repeatable for 6 credit.

Topic to be decided by faculty.

EDSE 400 Tutoring and Proctoring

credit(s): 1-3

Course repeatable for 3 credit.

This course provides students the opportunity to work collaboratively and gives experience in teaching adults. Students may assume leadership roles and develop strategies for later application in training situations. In addition, teaching recently learned material reinforces the extension and generalization of their knowledge.

Prerequisite(s): EDSE 320, minimum grade: B

EDSE 402 BCaBA Supervised Experience I

credit(s): 3

This supervised practicum is designed to provide undergraduate students with 90 hours of applied experience to meet a portion of the required hours toward becoming a Board Certified Assistant Behavior Analyst (BCaBA). Students are expected to complete all coursework in a

timely manner and conduct themselves in a professional and ethical manner especially when working with agencies/schools, supervisors/mentors, and individuals with exceptionalities.

Prerequisite(s): EDSE 469

EDSE 403 BCaBA Supervised Experience II **credit(s): 3**

"This supervised practicum is designed to provide undergraduate students with 90 hours of applied experience to meet a portion of the required hours toward becoming a Board Certified Assistant Behavior Analyst (BCaBA). Students are expected to complete all coursework in a timely manner and conduct themselves in a professional and ethical manner especially when working with agencies/schools, supervisors/mentors, and individuals with exceptionalities."

Prerequisite(s): EDSE 402

EDSE 404 BCaBA Supervised Experience III **credit(s): 6**

This supervised practicum is designed to provide undergraduate students with 180 hours of applied experience to meet a portion of the required hours toward becoming a Board Certified Assistant Behavior Analyst (BCaBA). Students are expected to complete all coursework in a timely manner and conduct themselves in a professional and ethical manner especially when working with agencies/schools, supervisors/mentors, and individuals with exceptionalities.

Prerequisite(s): EDSE 403

EDSE 406 In School Experience Secondary **credit(s): 1-3**

Course repeatable for 3 credit.

The student spends 30 hours (per credit taken) working in a special education classroom at the secondary level with emphasis in math and reading.

EDSE 407 Special Education Application with Adults **credit(s): 1-3**

Course repeatable for 3 credit.

The student spends 30 hours (per credit taken) working in environments serving adolescents or adults with developmental disabilities. Settings include group homes, sheltered workshops, supported work programs, and institutions.

EDSE 410 Precision Teaching **credit(s): 3**

This course deals with various assessment procedures, such as psychometric testing, teacher constructed tests, achievement tests, and observational scoring. Emphasis is placed on using assessments to identify instructional interventions that can be carried out in the classroom or clinical setting to remediate learning and behavior problems.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Prerequisite(s): EDSE 465

EDSE 415 Psychology of the Child with ADHD **credit(s): 3**

This class covers the historical and present treatment techniques dealing with the child with attention deficits and hyperactivity in the classroom and at home. Various assessment devices to determine ADHD are examined. Practical procedures that can be implemented in the school or home are strongly emphasized.

EDSE 417 Assessment-Special Education **credit(s): 3**

This course deals with various assessment procedures, such as psychometric testing, teacher constructed tests, achievement tests, and observational scoring. Emphasis is placed on using

assessments to identify instructional interventions that can be carried out in the classroom setting to remediate learning and behavior problems.

Restriction(s):

Must be in the following Major(s) or Minor(s): Psychology, Special Education

Prerequisite(s): EDSE 320 or PSYC 101

EDSE 427 Teaching Persons with Developmental Disability credit(s): 3

This course provides students with an understanding of state-of-the-science practices for serving individuals who have mental disabilities. The focus is on development of intervention within community, school, vocational, domestic, and social settings for both school-age students and adults.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Prerequisite(s): EDSE 320, minimum grade: C

EDSE 432 Core Integration Seminar credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

EDSE 450 Special Education Seminar credit(s): 1

The purpose of this course is to review and reinforce information regarding student with disabilities and the laws and procedures that govern their education. Candidates will enhance skills through a seminar format in accordance to the mandates of the 2004 IDEiA and its linkages to regular education teachers.

Prerequisite(s): (EDTE 496E (or concurrent) and EDTE 495 (or concurrent))(or EDTE 495 (or concurrent) and EDTE 496S (or concurrent)) or EDPE 495 (or concurrent)

EDSE 451 Direct Instruction-Reading credit(s): 3

This course covers how to teach special education and regular education pupils beginning through intermediate reading skills directly. Particular emphasis is placed on instructing teachers to use reading techniques which have had research supporting their effectiveness. Prospective teachers are taught how to teach, monitor, assess, and remediate various reading skills.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Must not be the following Class(es): Freshman

Prerequisite(s): EDSE 320, minimum grade: B

EDSE 452 Direct Instruction-Mathematics credit(s): 3

This course covers how to teach basic mathematical skills directly to special education and regular education elementary pupils. Emphasis is placed on instructing teachers to use mathematical techniques which have research supporting their effectiveness. Prospective teachers are taught how to teach, monitor, assess, and remediate various mathematical skills.

Corequisite(s): EDSE 452L

Prerequisite(s): EDSE 320, minimum grade: B

EDSE 452L DI Math Lab credit(s): 0

This lab course is a co-requisite of EDSE 452. This lab provides supplemental instruction and also remediation for students having difficulty with math concepts presented in EDSE 452.

Corequisite(s): EDSE 452

EDSE 465 Classroom Management credit(s): 3

Principles and procedures are presented to promote effective classroom discipline and teaching in either a self-contained or resource center setting. Emphasis is placed on practical techniques that can be employed by one teacher.

Fulfills the following degree requirement(s): Core: Writing Enriched

Corequisite(s): EDSE 465L

Prerequisite(s): EDSE 150 and EDSE 320 (and EDSE 306 or EDSE 307 or EDSE 406 or EDSE 407)

EDSE 465L Classroom Management Lab credit(s): 0

This course provides supplemental information to benefit students taking EDSE 465. Content of the course includes APA format for project completion, computer instruction on creating graphs and tables, review of difficult content from class, directed information regarding action research, and ethical standards information.

Corequisite(s): EDSE 465

EDSE 469 BCaBA Ethics in Behavior Analysis credit(s): 1

This course was designed to provide undergraduate students an understanding of the expectations of ethical behavior required by the Behavior Analyst Certification Board (BACB) and the Association of Behavior Analysis International (ABAI). This course covers content in all of the areas found in the "Professional and Ethical Compliance Codes for Behavior Analysis". Learning these codes is imperative when practicing as a Board Certified Assistant Behavior Analyst (BCaBA) and provides guidance for ways to conduct themselves that highlight the highest ethical standards while focusing on client-centered ethical responsibilities.

Prerequisite(s): EDSE 320

EDSE 470 Functional Analysis Seminar credit(s): 3

This course reviews functional analysis methodologies for systematically identifying environmental variables that serve to maintain aberrant behavior. The course includes a detailed overview of functional analysis procedures and treatment packages that can be implemented based on the results of functional analyses. Particular emphasis is placed on reinforcement-based interventions and dimensions of reinforcement.

Restriction(s):

Must be in the following Major(s) or Minor(s): Special Education

Prerequisite(s): EDSE 465

EDSE 480 Teacher Development Seminar **credit(s): 2**

This course provides students with necessary content and strategies to develop and grow productive teaching practices. Course content links research to best practices and includes a culminating assignment designed to assess student learning through evidence-based decision making along with rationales for modifications to strategies. Emphasis is placed on practical aspects of the teaching experience including but not limited to environmental contexts, working with other professionals, classroom routine, understanding P-12 student conditions, impact of trauma on learning, etc. In addition, some content covers ways to prevent teacher burnout and self-care strategies. Required content from WA state is also covered.

Prerequisite(s): EDSE 465

EDSE 490 Directed Readings **credit(s): 1-3**

Course repeatable for 6 credit.

This course is an individualized study based on readings approved by the professor. The student develops a selected bibliography.

EDSE 491 Directed Study **credit(s): 1-3**

Course repeatable for 6 credit.

This course is an individualized study that is designed by the professor. Students follow a prescribed course outline.

EDSE 492 Independent Study **credit(s): 1-6**

Course repeatable for 6 credit.

This course is an individualized study that is designed by the student in consultation with the professor. Self-directed learning in a selected area of interest is the process employed. Professor serves as resource.

EDSE 494 Special Projects **credit(s): 1-3**

Course repeatable for 6 credit.

This course is an individualized study that is project-based. The study requires the practical application of educational theory. The project or a written report of the project is submitted to the professor for evaluation.

EDSE 495 Extended Special Education Experience **credit(s): 3-9**

Course repeatable for 9 credit.

The Extended Special Education Experience (EDSE 495) is a field-based practicum designed to provide students with an intensive applied experience in settings focused on assisting individuals with special needs and/or organizations that support individuals with special needs. This course is designed to be taken in 3, 6, or 9 credits. The number of credits determines the amount of hours of service provided at the site (for 3 credits 90 hours are required, 6 credits 180 hours and 9 credits 270 hours). Students are placed in one agency/organization for the entire semester.

EDSE 496 Special Education Teaching Practicum

credit(s): 12

This is the intensive field experience in which the student assumes the full responsibility of a Special Education Teacher under the direction of a University Supervisor and a Special Education Mentor teacher.

Restriction(s):

Must be in the following College/School(s): School of Education

Must be the following Class(es): Senior

Prerequisite(s): EDSE 465

EDSE 497 Extended Special Education Teaching Practice

credit(s): 13

This is an intensive field experience which spans across the entire semester (13 credits). The student will systematically take over the responsibilities of the special education teacher under the direction of a University Supervisor and a Special Education Mentor teacher.

Restriction(s):

Must be in the following College/School(s): School of Education

Must be the following Class(es): Senior

Prerequisite(s): EDSE 465

Kinesiology and Sport Management

Chair: Dr. Karen Rickel

The department offers two degrees and a minor:

Bachelor of Education in Kinesiology
Bachelor of Education in Sport Management
Minor in Sport Management

Bachelor of Education in Kinesiology

The Bachelor of Education in Kinesiology is dedicated to training students in best practices to help others reach their highest potential. Students pursuing this degree investigate how physical activity and health behaviors influence exercise performance, disease, and quality of life. Graduates are equipped with the knowledge, skills, and confidence to work in clinical, community, and commercial/corporate settings to evaluate and program health, fitness, and sport-related activities. The Kinesiology program prepares students to work in roles such as an exercise physiologist, strength and conditioning coach, or fitness club programmer. In addition, the degree is designed to provide students with a pathway to various graduate programs in areas such as (but not limited to) athletic training and clinical or applied kinesiology and exercise science-related programs. Students will be qualified to sit for national certifications such as the American College of Sports Medicine (ACSM) Certified Exercise Physiologist certification or the National Strength and Conditioning (NSCA) Certified Strength and Conditioning certification upon completion of the Kinesiology program.

Bachelor of Education in Sport Management

The Bachelor of Education in Sport Management prepares students for a variety of positions within the sport industry. This degree also prepares students for graduate studies in Athletic Administration, Sport Management, or related disciplines. It is strongly recommended that Sport Management majors pursue an advisor-approved minor such as General Business, Communications, or other relevant specialty areas. The Department also offers a 24-credit minor in Sport Management.

Activity Course Offering: The Kinesiology and Sport Management Department also offers a large number of activity courses (EDPE 101-189) which are open to students throughout the University. Activity courses may be repeated for credit.

B.Ed. Major in Kinesiology: 51 Credits

Lower Division

EDPE 190 Introduction to Kinesiology & Sport Management	3 credits
EDPE 202A Health and Fitness Club Management	3 credits
EDPE 209 Community CPR & First Aid	1 credit
EDPE 222 Health and Wellness	3 credits
EDPE 224 Exercise and Sport Nutrition	3 credits
EDPE 276 Anatomy and Physiology I	3 credits
EDPE 276L Anatomy and Physiology I Lab	1 credit
EDPE 277 Anatomy and Physiology II	3 credits
EDPE 277L Anatomy and Physiology II Lab	1 credit

Upper Division

EDPE 310 Motor Development and Learning	3 credits
EDPE 340 Exercise & Sport Psychology	3 credits
EDPE 377 Physiology of Exercise	3 credits
EDPE 377L Physiology of Exercise Lab	1 credit
EDPE 378 Structural Kinesiology	3 credits
EDPE 450 Principles of Strength & Conditioning	3 credits
EDPE 465 Special Populations & Exercise	3 credits
EDPE 477 Exercise Testing	3 credits
EDPE 477L Exercise Testing Lab	1 credit
EDPE 480 Exercise Prescription	3 credits
EDPE 481 Kinesiology Seminar	1 credit
EDPE 496 Practicum	3 credits
EDPE 499 Comprehensive Examination	0 credits

B.Ed. Major in Sport Management: 42 credits

Lower Division

EDPE 190 Introduction to Kinesiology & Sport Management	3 credits
EDPE 202A Health and Fitness Club Management	3 credits
EDPE 205 Sport and Activity in a Diverse Society	3 credits
EDPE 207 Sport and Fitness in the Digital Age	3 credits
EDPE 222 Health and Wellness	3 credits

Upper Division

EDPE 321 Sport Facility Management	3 credits
EDPE 340 Exercise & Sport Psychology	3 credits
EDPE 400 Sport Sponsorship and Promotions	3 credits
EDPE 412 Administration of Sport and Athletics	3 credits
EDPE 414 Ethical and Legal Aspects in Sport	3 credits
EDPE 405 Senior Seminar in Sport	3 credits
EDPE 300-498 elective (not previously taken)	3 credits
EDPE 496D Sport Management Internship I	3 credits
EDPE 496E Sport Management Internship II	3 credits

Minor in Sport Management: 24 credits

Lower Division

EDPE 190 Introduction to Kinesiology & Sport Management 3 credits

EDPE 205 Sport and Activity in a Diverse Society 3 credits

Upper Division

EDPE 321 Sport Facility Management 3 credits

EDPE 412 Administration of Sport and Athletics 3 credits

EDPE 496D Sport Management Internship I 3 credits

Choose three of the following four courses: 9 credits

EDPE 207 Sport and Fitness in the Digital Age

EDPE 400 Sport Sponsorship and Promotions

EDPE 414 Ethical and Legal Aspects in Sport

EDPE 485 Special Topics

(May repeat once for a total of 6 credits.)

Courses:

EDPE 101 Tai Chi **credit(s): 1**

Course repeatable for 8 credit.

Tai Chi is a unique exercise system which consists of a sequence of slow, relaxed movements. Its benefits in the areas of health, fitness, relaxation, concentration and self-defense are well known. Tai Chi helps restore and maintain natural health as well as stretches, strengthens, and relaxes the entire body. Tai Chi is a gentle exercise suited to all age groups and can be used as a valuable method of stress management. Offered on sufficient demand.

EDPE 102 Basketball and Softball **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both basketball and softball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. Offered on sufficient demand.

EDPE 103 Basketball and Flag Football **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both basketball and flag football. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. This class is only offered in the fall.

EDPE 104 Varsity Basketball **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Basketball Team only. Instructor permission required.

EDPE 106 Varsity Cheerleading **credit(s): 1**

Course repeatable for 20 credit.

Members of the Varsity Cheerleading Team only. Instructor permission required.

EDPE 108 Beginning Bowling **credit(s): 1**

Course repeatable for 8 credit.

Students will be provided with a progressive sequence of skills and activities designed to provide a basic understanding of bowling. This class will cover bowling strategies, techniques, terminology, etiquette and safety concepts. In addition, this course is designed to provide competition in a fun environment. This is an off-campus course. Lab fee required.

EDPE 110 X-Biking **credit(s): 1**

Course repeatable for 8 credit.

This interval based cycling class will work your entire body. Classes are taught using the stationary x-bikes, which allow users to engage their upper body and core while the legs do the pedaling.

EDPE 111 Indoor Soccer **credit(s): 1**

Course repeatable for 8 credit.

This activity class will focus on the fundamental skills and rules of indoor soccer. This class will be held at the SYSA Indoor Soccer Center and will be taught by experienced soccer coaches. This is an off-campus course. Lab fee required. Offered on sufficient demand.

EDPE 112 Varsity Rowing **credit(s): 1**

Course repeatable for 8 credit.

Instructor Permission and Crew Team only

EDPE 113 Cross Training **credit(s): 1**

Course repeatable for 8 credit.

Cross Training combines classic strength training and conditioning into a highly effective program. In each session, athletes tackle a strength component followed by a metabolic conditioning component. Strength training revolves around core lifts: squats, presses, deadlifts, and an introduction to Olympic lifts. In addition to the core lifts, athletes will also gain exposure to accessory, midline, and bodyweight strength. This class is great for any level of fitness. This is an off-campus course. Lab fee required.

EDPE 114 Zumba **credit(s): 1**

Course repeatable for 8 credit.

Zumba is a fusion of Latin and International Music-dance themes creating a dynamic, exciting, effective fitness system. The routines feature aerobic/fitness interval training with a combination of fast and slow rhythms that tone and sculpt the body. Zumba utilizes the principals of fitness interval training and resistance training to maximize caloric output, fat burning and total body toning. It targets areas such as the glutes, legs, arms, abdominals and the heart. It is a mixture of body sculpting movements with easy to follow dance steps.

EDPE 115 Cardio Blast **credit(s): 1**

Course repeatable for 8 credit.

Geared to all who want to sweat and have fun in a group fitness class. Classes will be a combination of step and floor aerobics, aerobic kickboxing, circuit training, body toning, and general cardiovascular workouts. Classes vary by day and instructor focus.

EDPE 116 Cardio Pump **credit(s): 1**

Course repeatable for 8 credit.

Cardio Pump is a barbell class that will strengthen and tone your entire body. This 50-minute workout will challenge all of your major muscle groups by using exercises like squats, presses, lifts and curls in high repetition set to music. Offered on sufficient demand.

EDPE 117 Social Dance **credit(s): 1**

Course repeatable for 8 credit.

Students will learn the fundamentals of swing, salsa and ballroom styles of dance. Social dancing provides an outlet for increasing an individual's social, mental, and physiological development in a fun, low pressure environment. This is an off-campus course. Lab fee required. Offered on sufficient demand.

EDPE 118 Barre Fusion **credit(s): 1**

Course repeatable for 8 credit.

Barre Long and Lean is a full body workout that yields powerful results quickly. Classes utilize a ballet barre to build long, lean muscles and functional body. Components of class include yoga, Pilates, strength training and stretching. No experience is necessary and all levels of fitness are welcome. This is an off-campus course. Lab fee required.

EDPE 119 Roll and Recover **credit(s): 1**

Course repeatable for 8 credit.8 time.

The goal of this course is to teach students how to use self-myofascial release techniques to recover, move and feel better. Each class will focus on treating different muscle groups and areas of the body by using therapy balls and other recovery tools. Students will not only get the benefit of experiencing myofascial release techniques each class from a certified instructor but will also learn how to use the therapy balls themselves to help their body recover and move better. This class is appropriate for all ages and fitness levels. Yoga mat is required for this class. This is an off-campus course. Lab fee required.

EDPE 120 Varsity Baseball **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Baseball Team only. Instructor permission required.

EDPE 122 Varsity Track **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Track Team only. Instructor permission required.

EDPE 123 Varsity Cross Country **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Cross Country Team only. Instructor permission required.

EDPE 124 Beginning Fencing **credit(s): 1**

Course repeatable for 8 credit.

Students will be provided with a progressive sequence of skills and activities designed to offer a basic understanding of fencing including strategies, techniques, terminology, and safety concepts. Lab fee required. Offered on sufficient demand.

EDPE 125 Intermediate-Advanced Fencing **credit(s): 1**

Course repeatable for 8 credit.

EDPE 126 Beginning Golf **credit(s): 1**

Course repeatable for 8 credit.

Each session will consist of a review of basic fundamentals of grip, stance, ball positioning and swing mechanics. The first session will include: course overview, safety concerns in the game of golf and putting. The second session will be chipping; the third session will consist of swings with the short irons; the fourth session will cover the full swing with mid irons; the fifth session will cover full swing with woods; the sixth and final session will go over bunker play, course review and etiquette. This is an off-campus course. Lab fee required.

EDPE 127 Intermediate-Advanced Golf **credit(s): 1**

Course repeatable for 8 credit.

This course is a continuation from EDPE 126. It is designed to provide more advanced instruction for individuals with greater than beginning skills. It will discuss and emphasize stroke refinement and special play situations. This is an off-campus course. Lab fee required.

EDPE 128 Varsity Golf **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Golf Team only. Instructor permission required.

EDPE 129 Self Defense/Judo **credit(s): 1**

Course repeatable for 8 credit.

The purpose of this class is for the student to develop the skills necessary to participate in the martial art of judo, as well as basic self-defense skills. It is also designed to provide an avenue to maintain a quality physical and mental outlet to lead a healthier lifestyle. The course will include standing basics, moving basics, kata, and basic throwing and falling techniques. NEED TO CHECK ON THIS ONE.

EDPE 130 Triathlon Training **credit(s): 1**

Course repeatable for 8 credit.

The emphasis of this course will be on preparing students for triathlon events, with skill development in the areas of swimming, biking and running. This course will incorporate a variety of training methods to ensure progressive development of individual cardiovascular fitness. Offered on sufficient demand.

EDPE 131 Beginning Karate **credit(s): 1**

Course repeatable for 8 credit.

During this class, students can expect to learn not only the basics of traditional karate, but also proper etiquette, Chinese and Japanese terminology, as well as proper breathing techniques. It is expected that students know and follow the proper etiquette rules of the karate teachings. This will be learned and displayed through the controlled fighting situations in the class. This class is designed to cultivate the virtues of humility, strength of character, creativity, decisiveness, patience, and respect for others. Offered on sufficient demand.

EDPE 132 Intermediate Karate **credit(s): 1**

Course repeatable for 8 credit.

A continuation of EDPE 131-01, students can expect to expand their knowledge of traditional karate, etiquette, and Chinese and Japanese terminology. It is expected that students know and follow the proper etiquette rules of the karate teachings. This will be learned and displayed through the controlled fighting situations in the class. This class is designed to cultivate the

virtues of humility, strength of character, creativity, decisiveness, patience, and respect for others. Offered on sufficient demand.

EDPE 133 Advanced Karate

credit(s): 1

Course repeatable for 8 credit.

A continuation of EDPE 132, students can expect to continue to expand their knowledge of traditional karate, etiquette, and Chinese and Japanese terminology. It is expected that students know and follow the proper etiquette rules of the karate teachings. This will be learned and displayed through the controlled fighting situations in the class. This class is designed to cultivate the virtues of humility, strength of character, creativity, decisiveness, patience, and respect for others. Offered on sufficient demand.

EDPE 136 Scuba

credit(s): 1

Course repeatable for 8 credit.

The purpose of an Open Water Diver Scuba Diving course is to equip each student with the proper knowledge and skills to become a safe and independent diver. The goal of this class is to work towards becoming a certified, safe and educated diver that respects and enjoys the underwater world. All academics and water skills will be taught in a realistic manner with references to practical diving situations. Students must pass a swim test in order to participate. Lab fee required.

EDPE 137 Sport Performance Training

credit(s): 1

Course repeatable for 8 credit.

This class is designed to progressively build strength, power, speed, agility and endurance for your sport. Improving athleticism through strength & conditioning workouts will enhance your sport-specific skills on the field and court. A properly executed sports performance training plan will not only help you jump higher and run faster, but will also reduce the chance of injury. This is an off-campus course. Lab fee required. Offered on sufficient demand.

EDPE 138 Alpine Skiing

credit(s): 1

Course repeatable for 8 credit.

This course is open to both non-skiers and skiers of various abilities. You'll have fun while learning or improving your ski skills and get credit at the same time. Students have the option of enrolling in classes at 49 Degrees North or Mt. Spokane. The course runs for six consecutive weeks. This is an off-campus course. Lab fee required. This class is only offered in the spring.

EDPE 140 Snowboarding

credit(s): 1

Course repeatable for 8 credit.

This course is open to snowboarders of all abilities. You'll have fun while learning or improving your snowboarding skills and get credit at the same time. Students have the option of enrolling in classes at 49 Degrees North or Mt. Spokane. The course runs for six consecutive Saturdays. This is an off-campus course. Lab fee required. This class is only offered in the spring.

EDPE 144 Shoot 360 Basketball Training

credit(s): 1

Course repeatable for 8 credit.

This class takes place in a state-of-the-art basketball training facility where students will work on passing, ballhandling, and shooting. Passing and ballhandling skill development will take place on interactive skill courts with virtual trainers and passing screens. Students will then move onto shooting courts where they will get instant feedback with the newest technology in

basketball training. Students will be required to attend 2 classes a week. All levels of basketball players are welcome and encouraged. Off-Campus course. Additional lab fee required.

EDPE 145 Varsity Soccer **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Soccer Team only. Instructor permission required.

EDPE 146 Soccer and Volleyball **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both soccer and volleyball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates.

EDPE 147 Softball and Volleyball **credit(s): 1**

Course repeatable for 8 credit.

This class is designed to provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both softball and volleyball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates.

EDPE 148 Varsity Tennis **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Tennis Team only. Instructor permission required.

EDPE 149 Varsity Tennis Conditioning **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Tennis Team only. Instructor permission required.

EDPE 150 Varsity Weight Training **credit(s): 1**

Members of Gonzaga University Varsity Athletic Teams only. Permission required

EDPE 151 The Union Spin/Yoga **credit(s): 1**

Course repeatable for 8 credit.

The Union is an off-campus fitness studio that specializes in both spin and yoga classes. The hour long yoga class and fifty minute spin class focus on powerful, athletic and high energy components. Students will be required to attend 2 classes a week and can pick either yoga and/or spin. All levels of fitness are welcome and encouraged. This is an off-campus course. Lab fee required.

EDPE 152 Racquet Sports **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in racquetball, pickle ball, badminton and tennis. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates.

EDPE 153 Tennis **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both tennis and badminton. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. Offered on sufficient demand.

EDPE 154 Varsity Volleyball **credit(s): 1**

Course repeatable for 8 credit.

Members of the Varsity Volleyball Team only. Instructor permission required.

EDPE 155 Soccer and Basketball **credit(s): 1**

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both soccer and basketball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates.

EDPE 156 Pilates **credit(s): 1**

Course repeatable for 8 credit.

This Pilates class is designed to strengthen and lengthen the muscles of the body. Using a combination of mat-work exercises, yoga-like postures, and strength conditioning skills, this Pilates class will focus on abdominal muscles, the muscles of the upper and lower back, including the shoulders, and the muscles surrounding the pelvis and glutes. This class will include beginner through intermediate level Pilates exercises and is appropriate for all ages and fitness levels.

EDPE 157 Yoga **credit(s): 1**

Course repeatable for 8 credit.

This class is designed to promote individual fitness for total mind/body health. The primary emphasis will focus on strength and stretching movements, incorporating breathing and relaxation techniques. Students will benefit from greater body awareness, increased strength, flexibility, and an overall feeling of well-being. This class is appropriate for all ages and fitness levels. Classes vary by day and by instructor focus.

EDPE 158 Fitness and Conditioning **credit(s): 1**

Course repeatable for 8 credit.

Fitness and Conditioning is a great class for both the beginning exerciser and the fitness enthusiast. This course is designed to help increase individuals' cardiovascular endurance, speed and agility, and upper body, lower body, and core strength. This class will introduce individuals to a variety of activities that will lead to an overall improvement of body conditioning: weight training, running/walking, calisthenics, and plyometrics.

EDPE 160 Weight Training **credit(s): 1**

Course repeatable for 8 credit.

This course is designed for students with all levels of weight training experience. Students will be supervised and instructed in the proper lifting techniques. This class gives instruction and practice in the use of resistance exercise for increasing muscular strength and endurance. The course will emphasize different effects from different workout types and proper lifting technique to help individuals meet their goals. Additionally, students will learn general weight room safety, spotting techniques and weight room etiquette.

EDPE 161 Studio Yoga **credit(s): 1**

Course repeatable for 8 credit.

Experience yoga off-campus in a warm studio exclusively dedicated to the practice of yoga, meditation and study. At Spokane Yoga Shala, several different styles of yoga are taught.

Students are able to pick classes and times that work best you're your schedule. Students are expected to attend two classes a week. This is an off-campus course. Lab fee required.

EDPE 164 Beginning Fly Fishing credit(s): 1

Course repeatable for 8 credit.

The purpose of this class is to provide beginning fly fishers, or those who need some basic assistance, with a comprehensive course on the essentials of fly fishing. Intermediate students can also enroll in this class to enrich their technical skills. The class will cover equipment; casting; basic entomology (fish food sources); water reading; fly selection and knot tying; safety; fishing strategies in both still and moving water; and if time allows an introduction to fly tying. Lab fee required. Offered on sufficient demand.

EDPE 168 EF: Tread, Yoga, EMP credit(s): 1

Course repeatable for 8 credit.7 time.

Empire focuses on whole body health and wellness with an emphasis on functional movement, recovery and sustainable fitness. Class options are listed and described below. Students will be required to attend 2 classes a week and can choose Yoga, EMP or Treads. Classes are available for all levels and can always be tailored to individual fitness needs. This is an off-campus course. Lab fee required.

EDPE 170 Ice Skating credit(s): 1

Course repeatable for 8 credit.

Beginners to intermediate ice skaters will enjoy this class. Improve your skating skills with experienced instructors at the Riverfront Park Ice Palace. Not only will students be given plenty of instruction and free skate, but games are incorporated into the class as well. This is an off-campus course. Lab fee required. Offered on sufficient demand.

EDPE 173 Badminton and Racquetball credit(s): 1

Course repeatable for 8 credit.

This class will provide students with a progressive sequence of skills and activities designed to offer a basic understanding in both badminton and racquetball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. Offered on sufficient demand.

EDPE 175 Beginning Gymclimbing credit(s): 1

Course repeatable for 8 credit.

This course teaches students the basic climbing skills. The emphasis of this course will be on climbing technique and physical training through climbing in the gym. This course is held at Wild Walls Climbing Gym which is a state of the art 40 foot high monolith with over 6000 square feet of climbing terrain. There are over 35 ropes for top roping, a bouldering cave and 50 routes that are changed on a continual basis. This is an off-campus course. Lab fee required.

EDPE 176 Intermediate Gym Climbing credit(s): 1

Course repeatable for 8 credit.

This course is geared toward students who already have the basic climbing skills. Knowledge needed for this class is: be an experienced belayer, tie a figure eight follow through knot and understand the basic terminology associated with climbing. The emphasis of this course will be on climbing technique and physical training through climbing in the gym. This course is held at Wild Walls Climbing Gym which is a state of the art 40-foot-high monolith with over 6000

square feet of climbing terrain. There are over 35 ropes for top roping, a bouldering cave and 50 routes that are changed on a continual basis. This is an off-campus course. Lab fee required.

EDPE 178 Racquetball **credit(s): 1**

Course repeatable for 8 credit.

This class is designed to provide students with a progressive sequence of skills and activities designed to offer a basic understanding the sport of racquetball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. Offered on sufficient demand.

EDPE 179 Beginning/Intermediate Handball **credit(s): 1**

Course repeatable for 8 credit.

This class is designed to provide students with a progressive sequence of skills and activities designed to offer a basic understanding the sport of handball. Game strategies, techniques, terminology, rules and safety will be covered in this class. Students will participate in organized games and skill competitions against classmates. Offered on sufficient demand.

EDPE 186 GU out of Bounds Rafting **credit(s): 1**

Course repeatable for 8 credit.

A basic introduction to river rafting, campsite preparation, and organization. Students must participate in the Gonzaga sponsored "Out of Bounds" adventure orientation to be eligible for this activity class.

EDPE 188 PiYo **credit(s): 1**

Course repeatable for 8 credit.

This class is designed to promote individual fitness for total mind/body health through a combination of mat Pilates and yoga. The primary emphasis will be on strengthening and stretching movements, from each tradition, along with the varied breathing techniques associated with each. Appropriate for all ages and fitness levels, the students will benefit from greater body awareness, increased strength, flexibility, and an overall feeling of well-being.

EDPE 189 Exercise Technique **credit(s): 1**

This course introduces students to proper exercise technique, equipment considerations, exercise selection, and resistance training safety guidelines. Students will demonstrate proper technique for various body weight, free weight, and resistance machine exercises.

EDPE 190 Introduction to Kinesiology and Sport Management **credit(s): 3**

Overview of the historical and philosophical foundations, contemporary viewpoints, and knowledge bases of kinesiology and sport management. Introduction to scholarly study, career opportunities, and professional preparation in related fields.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): Kinesiology, Sport Management, Sport Management

Must be the following Class(es): Freshman, Sophomore

EDPE 191 Special Topics **credit(s): 1-3**

Course repeatable 7 time.

Topic to be decided by faculty.

EDPE 195 New Athlete Orientation **credit(s): 1**

This course is designed to support the student athlete with academics and Division I regulations. Permission only.

EDPE 201 Team Sports Methods credit(s): 2

Students are exposed to the concepts, terminology, skill development, and methods necessary to instruct a variety of team sports. Emphasis is placed on designing and delivering instructional and assessment techniques for fundamental movement patterns and tactical principles in team sports commonly taught in public schools and recreational settings.

Restriction(s):

Must not be in the following Major(s):
Must not be the following Class(es): Freshman

EDPE 205 Sport and Act in Diverse Society credit(s): 3

A comprehensive understanding of the ways in which people differ - including race, sex, age, mental and physical ability, weight, religion, sexual orientation, and social class - and how these differences can influence sport organizations. This course offers specific strategies for managing diversity in social organizations and work groups, provides an overview of different types of diversity training which can be implemented in the workplace, and outlines legal issues related to diversity.

Restriction(s):

Must not be in the following College/School(s):
Must be in the following Major(s): Sport Management, Sport Management
Must not be the following Class(es): Junior, Senior

EDPE 207 Sport and Fitness in Digital Age credit(s): 3

This course will analyze the changes that have given rise to the situation, combining theoretical insights with original evidence collected through extensive research and interview with people working in the media and sport and fitness industry. This course will be conducted in a discussion/lecture and lab format. Students will develop a set of sport media projects in the computer lab that will allow them to apply up-to-date technology into the real business of sport and fitness.

Restriction(s):

Must not be in the following College/School(s):
Must be in the following Major(s): Sport Management
Must not be the following Class(es): Junior, Senior

EDPE 209 Community CPR and First Aid credit(s): 1

Course repeatable for 2 credit.2 time.

Red Cross Certification in First Aid, CPR and AED is offered through a class that prepares students to recognize and respond to illness/injury situations. Learn basic care for victims, including cardiopulmonary resuscitation for infants, children and adults, as well as immediate care for injuries. Using Automatic External Defibrillators is covered. Class includes hands-on lab skill application.

Restriction(s):

Must not be in the following Major(s):

EDPE 211 Aerobic Exercise Instruction **credit(s): 1-2**

Development and perfection of skills necessary to participate in aerobic exercise activities, along with techniques of instructing the specifics of these skills. Offered on sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): EDPE 115

EDPE 222 Health and Wellness **credit(s): 3**

Investigation of the factors affecting healthful living and wellness, including mental, emotional, physical, social, spiritual, and environmental health.

Restriction(s):

Must be in the following Major(s): Dance, Kinesiology, Sport Management

EDPE 223 Lifeguard Training **credit(s): 3**

Prepares individuals to assume the duties and responsibilities of lifeguards at swimming pools and at protected (non-surf) open water beaches. Prerequisite: Successful completion of pre-course skill test. Offered on sufficient demand.

EDPE 224 Exercise and Sport Nutrition **credit(s): 3**

This course introduces students to the processes of digestion, transport and utilization of the macronutrients humans consume on a daily basis. Attention will be given to proper ranges for consumption of macronutrients as well as vitamins and minerals to improve overall health. A large portion of the course will be dedicated to the application of nutrition to various exercise settings (endurance athletes, strength athletes, team sport athletes, etc.) in order to optimize training and performance.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Dance, Kinesiology, Sport Management

EDPE 276 Anatomy and Physiology I **credit(s): 3**

Anatomy and Physiology is the first part of a two-course sequence. In this course, students are introduced to the structure and function of the human body in regards to cells, tissues and organs of the following systems: integumentary, skeletal, muscular and nervous systems, as well as the special senses. Emphasis will be placed on relationships between systems and the regulation of physiological mechanisms in order to maintain homeostasis. Must be concurrently enrolled in EDPE 276L.

Restriction(s):

Must be in the following Major(s): Kinesiology

Must not be the following Class(es): Freshman

Corequisite(s): EDPE 276L

EDPE 277 Anatomy and Physiology II **credit(s): 3**

Anatomy and Physiology II is the second part of a two-course sequence. In this course, students are introduced to the structure and function of the human body in regards to cells, tissues and organs of the following systems: endocrine, cardiovascular, respiratory, lymphatic, urinary, digestive and reproductive {which includes development, pregnancy and genetics). Emphasis

will be placed on relationships between systems and the regulation of physiological mechanisms in order to maintain homeostasis. Must be concurrently enrolled in EDPE 277L.

Restriction(s):

Must be in the following Major(s): Kinesiology

Corequisite(s): EDPE 277L

Prerequisite(s): EDPE 276 and EDPE 276L

EDPE 290 Directed Study

credit(s): 1-3

Course repeatable for 12 credit.

Topic to be decided by faculty.

EDPE 291 Special Topics

credit(s): 1-3

Course repeatable for 12 credit.

EDPE 307 Foundations in Sports Outreach

credit(s): 3

This course will investigate the historical foundations and the current development, planning, implementation, evaluation and biblical justifications for sport ministry programs (also known as sports outreach) within faith communities. The student who successfully completes this course will be able to relate biblical concepts to sport and recreational ministries from a written and practical format to provide a social contribution to the communities in which they reside. This course will equip the student to handle decision-making, organizational strategies, staffing, training, and various roles of leadership as they pertain to the broad faith community program.

Restriction(s):

Must not be in the following Major(s): Sport Management, Sport Management

Must be the following Class(es): Junior, Senior, Sophomore

EDPE 310 Motor Development and Learning

credit(s): 3

Students will learn the major theories and principles underlying the acquisition of motor skill and how control of skilled movements is gained, maintained, and adapted. Specifically, this course covers how changes in motor development impact the learning and performance of motor skills. Emphasis will be given to analyzing motor skills and designing developmentally appropriate instruction in various settings.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Kinesiology

EDPE 311 Exercise and Sport Instructional Methods

credit(s): 3

The study of how to design and deliver effective instruction in exercise and sport contexts. An introduction to curriculum development, instructional methods, and management strategies used within the field. This course utilizes an experiential approach to apply evidence-based practices in creating and leading exercise and sport sessions for diverse groups.

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): EDPE 310

EDPE 312 Health Methods Diverse Populations credit(s): 3

This course prepares future health, fitness and physical educators to develop and implement health programs that will meet the needs of all their students. Introduction and application of a variety of teaching styles and strategies, classroom/group management skills, assessment protocol, and program activities appropriate for health will be covered. It will also allow students to observe, review, plan, and deliver instruction, evaluate instruction and provide meaningful learning experiences to a diverse population in school and community educational programs. Particular attention will be given to K-12 national and state health standards.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Kinesiology

Prerequisite(s): EDPE 222

EDPE 313 Elementary Physical Education Methods credit(s): 3

This course introduces the knowledge and skills necessary to instruct a variety of physical activities for elementary aged children. Topics covered include: developing a quality program, characteristics of elementary students, classroom management, instructional methods, curriculum development, and assessment. Emphasis is placed on designing and delivering developmentally appropriate curriculum, instruction, and assessment for fundamental movement patterns and health-enhancing fitness concepts commonly taught in public schools and recreational settings. Must be concurrently enrolled in EDPE 497A.

Restriction(s):

Must be in the following Major(s): Kinesiology

Corequisite(s): EDPE 497A

Prerequisite(s): EDPE 311 (or concurrent)

EDPE 314 Secondary Physical Education Methods credit(s): 3

This course introduces the knowledge and skills necessary to instruct a variety of physical activities for secondary aged youth. Topics covered include: developing a quality program, characteristics of secondary students, classroom management, instructional methods, curriculum development, and assessment. Emphasis is placed on designing and delivering developmentally appropriate curriculum, instruction, and assessment for applying movement principles and strategies and health-enhancing fitness concepts commonly taught in public schools and recreational settings. Must be concurrently enrolled in EDPE 497B.

Corequisite(s): EDPE 497B

Prerequisite(s): EDPE 311 (or concurrent)

EDPE 315 Adapted Physical Education and Sport credit(s): 3

A course dealing with mental and physical disabilities that affect the cognitive, affective and physical development of youth. Physical activities, instructional strategies, and assessment protocol will be presented.

Restriction(s):

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): EDPE 189 and EDPE 310 (or concurrent)

EDPE 316 Water Safety Instruction credit(s): 3

This course is designed to prepare individuals to teaching "swimming" from beginning to advanced levels. The course will be conducted to meet the requirements of the American Red Cross Instructor's Course. Certificate will be awarded to those who qualify. Offered on sufficient demand.

EDPE 321 Sport Facility Management credit(s): 3

This course covers policies and practical applications of facility management and operations with special emphasis on effective designing, planning, operating, maintaining of the sport/athletic facility. Such topics as sports event bidding process, event planning, private and public funding sources for venue construction, mast plan, concessions and merchandising, booking, scheduling and security issues surrounding sport/athletic facilities will also be covered.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Sport Management, Sport Management

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 190 and EDPE 205

EDPE 333 International Sport Management and Culture credit(s): 3

This course focuses on the management and cross-cultural context of sport and the issues that surface when sport is examined through an international lens. This course will prepare students to think critically about the governance, business activities, media operations, and cross-cultural context of modern sport on an international level.

Restriction(s):

Must be in the following Major(s): Kinesiology, Sport Management

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 190 and EDPE 205

EDPE 340 Exercise and Sport Psychology credit(s): 3

This course covers the discussion and application of psychological principles within the contexts of exercise and sport. Topics include examining how motivation, anxiety, attention, group dynamics, and confidence influence performance and well-being. Addresses how effective communication, self-regulation strategies, stress management, imagery, concentration strategies, and cognitive techniques can be incorporated into psychological skills training programs designed to enhance performance and well-being.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 190 and EDPE 222

EDPE 343 Coaching Basketball credit(s): 2

Principles of defense and offense; fundamentals, special drills, rules, officiating, and equipment. Offered on sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

EDPE 346 Coaching Baseball **credit(s): 2**

Principles of coaching competitive baseball with an emphasis on strategy, drills for skill attainment, skill evaluation and Coaching philosophy. Offered on sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

EDPE 347 Coaching Football **credit(s): 2**

Principles of coaching competitive football with an emphasis on offensive and defensive strategy, position drills, and coaching philosophy. Offered on sufficient demand.

EDPE 349 Coaching Soccer **credit(s): 2**

Principles of coaching competitive soccer with an emphasis on offensive and defensive strategy, position drills and philosophy. Offered on sufficient demand.

Restriction(s):

Must be the following Class(es): Junior, Senior

EDPE 355 Wilderness Survival **credit(s): 2**

The purpose of this course is to provide students with knowledge and skills that will aid them in preparing for, preventing, and/or surviving a natural or man-made emergency or disaster. Course content includes clothing, shelter, and food appropriate for various outdoor environments; survival strategies; survival skills such as fire-building, signaling, route-finding with map and compass, and first aid, all set within a context promoting environmental ethics and safety awareness. Topics and skills will be covered through a variety of classroom and field experiences, including off campus outings. Lab fee required. Offered on sufficient demand.

EDPE 377 Physiology of Exercise **credit(s): 3**

The purpose of this course is to introduce students to the function of the human body during exercise. Specifically, how the human organism responds, adjusts, and adapts to both acute and chronic exercise. Emphasis is placed on bioenergetics, as well as cardiorespiratory, neuromuscular, and endocrine responses to the stresses of exercise. Also discussed are the effects of environmental factors and ergogenic aids and the impact both have on the physiological capacity of humans to perform exercise. Must be concurrently enrolled in EDPE 377L. Spring.

Restriction(s):

Must be in the following Major(s): Kinesiology

Must be the following Class(es): Junior, Senior, Sophomore

Corequisite(s): EDPE 377L

Prerequisite(s): (EDPE 276 and EDPE 277)

EDPE 378 Structural Kinesiology **credit(s): 3**

Concepts surrounding body movement from anatomical and mechanical perspectives. Students will have the opportunity to analyze movement in sport and activity and apply related knowledge to improve performance.

Restriction(s):

Must be in the following Major(s): Kinesiology

Prerequisite(s): EDPE 276 and EDPE 277

EDPE 390 Directed Study**credit(s): 1-3**

Course repeatable for 12 credit.

Topic to be decided by faculty.

Restriction(s):

Must not be in the following Major(s):

EDPE 400 Sport Sponsorship and Promotions**credit(s): 3**

This class builds on the general principles of sport marketing by discussing the unique aspects of sport marketing, applying marketing concepts to sport as a product, and the promotion of sport activities. Also, this course examines the topic from the perspective of the sponsored property, rather than a marketing perspective. It provides an overview of the theoretical underpinnings of the topic, followed by examples from actual sport sponsorships. Topics focus on the spectator as the product consumer and will include consumer analysis, market segmentation, product licensing and positioning, pricing, promotion, distribution, and sponsorship as they apply to sport.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Sport Management, Sport Management

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 190 (or concurrent) and EDPE 205 and EDPE 321**EDPE 405 Senior Seminar in Sport****credit(s): 3**

The Seminar is the paramount learning experience for students in their senior year. Students apply knowledge from the previous years of understanding and creating, being and becoming, caring and doing, and finally imagining the possible. Using principles of Jesuit education, prior components of their education and disciplinary expertise, students connect the Gonzaga Mission to their future role in the world of Sport and Physical Activity.

Restriction(s):

Must be in the following Major(s): Sport Management

Must be the following Class(es): Senior

EDPE 412 Administration of Sport and Athletics**credit(s): 3**

An introduction to organizational theories and practices with an emphasis on the sport industries. Leadership styles and theories, organizational development, personnel, fiscal, and legal issues will be introduced.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Sport Management, Sport Management

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 205 and EDPE 321**EDPE 414 Ethical/Legal Aspects in Sport****credit(s): 3**

This course is to familiarize students with the legal and ethical issues surrounding sport organizations. Topics such as negligence in sport, contract law, agency law, constitutional law,

ethical theories within the work place are covered. Hypothetical as well as actual cases in each legal and ethical category will be discussed.

Restriction(s):

Must be in the following Major(s): Sport Management, Sport Management

Must be the following Class(es): Junior, Senior

Prerequisite(s): EDPE 205

EDPE 417 Abuse Prevention

credit(s): 1

This course will provide students an awareness of the incidence of abuse and the knowledge and skills needed to execute their professional roles and responsibilities, as K-12 educators, in dealing with children who have suffered abuse and neglect. Reporting mandates and legal protection afforded in executing these mandates will also be covered.

Restriction(s):

Must be the following Class(es): Junior, Senior

EDPE 432 Core Integration Seminar

credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

EDPE 450 Principles of Strength and Conditioning

credit(s): 3

This course covers the scientific knowledge and exercise prescription principles of strength training and conditioning and their direct application to program design. Topics include periodization, testing and evaluation, program organization and administration, training modes and methods, and coaching exercise technique. Emphasis is given to the areas of agility, plyometric, speed and strength training for sport-specific performance.

Prerequisite(s): EDPE 377

EDPE 465 Special Populations and Exercise

credit(s): 3

This course focuses on special populations and the implications for the exercise setting. Populations that are covered include the following: cardiovascular diseases, pulmonary diseases, metabolic diseases, neuromuscular diseases, skeletal disorders, older adults and pregnancy. For each population, an overview of the physiology, impact of the condition on the acute exercise response, impact of training on the condition, and recommendations for exercise testing and prescription will be discussed.

Prerequisite(s): EDPE 377 and EDPE 377L

EDPE 477 Exercise Testing **credit(s): 3**

This course focuses on pre-exercise procedures consisting of health screening and risk factor assessment, along with exercise testing procedures for body composition, muscular strength, muscular endurance, cardiorespiratory fitness and flexibility. Emphasis will be placed on proper implementation/administration of exercise testing procedures and analysis of the findings.

Corequisite(s): EDPE 477L

Prerequisite(s): EDPE 377 and EDPE 377L

EDPE 480 Exercise Prescription **credit(s): 3**

This course focuses on the necessary skills in order to effectively prescribe exercise programs for individuals in regards to the health-related components of fitness. Building upon previous coursework, students will interpret fitness assessment data, design individualized exercise programs based on the data, and carry out the individualized program with a client. Students will also implement fitness assessments throughout the program to monitor progress and pinpoint where modifications need to take place to increase the effectiveness of the exercise prescription.

Prerequisite(s): EDPE 477 and EDPE 477L

EDPE 481 Kinesiology Seminar **credit(s): 1**

Provides review and preparation for national certification tests and/or comprehensive exams.

Restriction(s):

Must not be in the following Major(s):

Must be the following Class(es): Senior

EDPE 485 Special Topics **credit(s): 1-4**

Course repeatable 3 time.

To be determined by instructor.

EDPE 490 Directed Readings **credit(s): 0-3**

Course repeatable for 12 credit.

Individualized study based on readings approved by the professor. Students will develop a selected bibliography.

EDPE 491 Directed Study **credit(s): 0-3**

Course repeatable for 12 credit.

Individualized study that is designed by the professor. Students will follow a prescribed course outline.

EDPE 492 Independent Study **credit(s): 1-3**

Course repeatable for 12 credit.

Individualized study that is designed by the student in consultation with the professor for self-directed learning in a selected area of interest.

EDPE 494 Special Projects **credit(s): 1-3**

Course repeatable for 12 credit.

Individualized study that is project based. The study will result in a practical application of educational theory. The project or a written report of the project will be submitted to the professor for evaluation.

EDPE 495 Student Teaching Health and Physical Education credit(s): 12

An intensive field experience in which the teacher candidate assumes full responsibility as a health and fitness educator under the direction of a University supervisor and cooperating teacher.

Prerequisite(s): EDPE 311 and completion of all endorsement coursework and completion of the West E endorsement test prior to student teaching.

EDPE 497 Internship credit(s): 0
for 0 credit.

This course is offered in summer sessions only and does not count towards the major.

EDPE 499 Comprehensive Examination credit(s): 0

A final exam required of all Kinesiology majors in their final semester of coursework. The type of exam will be dictated by the student's program of study and a fee for the exam may be required. Contact the Program Director for specific information.

Teacher Education

Chairperson: Anny Case, Ph.D.

B.Ed Community, Culture, & Language Program Directors: James Hunter, Ph.D. and Kathy Nitta, Ph.D.

Elementary Program Director: Kathy Nitta, Ph.D

Secondary Program Director: John Traynor, Ph.D.

The Department of Teacher Education offers one bachelor's degree and two teacher certification programs

Bachelor of Education in Community, Culture and Language
Elementary Teacher Certification
Secondary Teacher Certification

In the spirit of Gonzaga's Catholic and Jesuit mission the Teacher Education Department prepares individuals to be reflective practitioners committed to servant leadership and social justice. We have been educating students since 1928, offering a thorough preparation in academic subject matter and professional teaching. As a reflective learning community faculty, staff, and students form supportive relationships that encourage service for others, reflective practice, and critical thinking skills.

Bachelor of Education in Community, Culture, and Language

The B.Ed in Community, Culture, and Language (CCL) (which is our primary pathway to elementary certification) provides students with a deep understanding of the ways in which cultures, languages, and literacies affect communities. The program builds a deeper understanding of and ability to navigate cultural and linguistic differences, as well as the tools to build and support community for the benefit of all. The guiding philosophy of this interdisciplinary degree is rooted in the Jesuit principle of living as men and women for others. In order to be men and women for others we must understand how our cultural and linguistic behaviors shape and are shaped by our worldviews and those of our respective communities. By developing cultural humility, we can develop alongside individuals from diverse linguistic and cultural backgrounds.

By the end of their sophomore year, students will be placed into one of two concentrations: the Elementary Education concentration, or the Community Education concentration. The major prepares students for potential employment as an elementary educator or in Non-Governmental Organizations, Non-Profit Organizations, and any businesses or organizations with a global focus.

To earn a Washington State K-8 teaching certificate, students in the elementary concentration take additional specialized courses in the teacher certification program. Students can also add the English Language Learner and Reading Endorsements. Students choosing the community concentration take the core CCL major requirements along with courses in the social sciences preparing them to serve in a variety of nonprofit, nongovernmental, and global organizations.

Community, Culture, and Language in Education Major: 34 credits

Lower Division

EDTE 101 Social and Cultural Foundations of Education	3 credits
EDTE 200 Language, Society, and Power	3 credits
EDTE 204 Community Languages and Language Acquisition	3 credits
EDTE 206 Community and Place-Based Education	3 credits

Upper Division

MTSL 304 Immigrant and Refugee Perspectives	3 credits
EDTE 321 Social Emotional Learning in Classroom and Community	3 credits
EDTE 432 Core Integration Seminar: Policy and Advocacy	3 credits

Choose one of the following two concentrations:

Elementary Education Concentration: 13 credits

EDTE 221E Differentiated Instruction and Assessment	3 credits
EDTE 221L Field Experience (Elementary)	1 credit
EDTE 306 Critical Pedagogical Issues in American Education	3 credits
EDTE 466 Literacy for English Language Learners	3 credits
Electives (choose one of the following):	3 credits
MTSL 401 Theory and Practice of Language and Teaching	
MTSL 480 TESOL Field Experience	
SOCI 388 Sociology of Education	

Community Education Concentration: 13 credits

MTSL 401 Theory and Practice of Language Teaching	3 credits
MTSL 480 TESOL Field Experience	1 credit
EDTE 494 Special Project	3 credits
Electives (choose two of the following):	6 credits
EDTE 202 Community and Ethnography	
ENGL 306 Language, Diversity, and Social Justice	
ENGL 480 Literary and Cultural Studies	
SOCI 388 Sociology of Education	

Elementary and Secondary Teacher Certification Programs

The Teacher Education Department offers a distinctive certification program that prepares educators with the knowledge, skills and dispositions to support K-12 learners. Students have an opportunity to obtain initial (residency) certification within the state of Washington at the Elementary (K-8) or Secondary (5-12) level with reciprocity throughout the United States. The Department is advised by a Professional Education Advisory Board (PEAB) composed of area teachers and school administrators. The certification programs also meet the standards specified by the Washington Professional Educator Standards Board (PESB). It is important to note that certification is not a major. Students pursue a major field of study in the School of Education or from another school or college at the University while also taking teacher certification courses. Students must also fulfill all the University core curriculum requirements.

Teacher certification students have a primary and a secondary advisor. The primary advisor (assigned when students are admitted to the University) advise students regarding degree and core curriculum requirements. Teacher certification students are assigned a secondary advisor from the Teacher Education Department who guides teacher certification candidates throughout the certification program.

Students who want to serve as elementary school teachers pursue Elementary certification allowing them to teach grades K-8 as generalists in a self-contained classroom. Those wanting to teach at the middle or high school level (5-12) pursue secondary certification. Secondary candidates choose a specific content/endorsement area to teach. The Teacher Education Department offers Secondary certification in the following endorsement areas:

Biology	English Language Arts
Chemistry	Mathematics
Physics	Music
French	Theatre Arts
Spanish	Social Studies

Admission to Teacher Certification Program Requirements:

The following criteria are the admission requirements for the teacher certification program:

1. 12 credits of education coursework successfully completed including one field experience.
2. Cumulative GPA of 2.50 or higher across GU courses.
3. C or better in all EDTE and MTSL courses.
4. Candidate has taken the basic skill assessment in each of the following categories: Reading, Writing, and Math in either the WEST B, SAT, ACT or test.
5. Current Washington State Pre-Residency Clearance.
6. Current FBI/Washington State Patrol Fingerprint Clearance on file.
7. No uncorrected documented disposition concerns.

Elementary Education Certification Program Requirements:

EDTE 101 Social and Cultural Foundations of Education	3 credits
EDSE 150 Psychology of Children with Exceptionalities	3 credits
<i>One of the following two courses:</i>	1 credit
EDTE 213 Since Time Immemorial	
EDTE 306 Critical Pedagogical Issues in American Ed	
EDTE 221E Elementary Differentiated Instruction and Assessment	3 credits
EDTE 221L Field Experience	1 credit
EDTE 231 Instructional Methods: Reading, Writing, Communications I	3 credits
EDTE 315E Classroom Assessment for Elementary Teachers	3 credits
MATH 104 Elements of Algebra and Statistics	3 credits
HIST 108 Intro to Pacific Northwest History	3 credits
BIOL 181L Biological Systems Lab	1 credit
EDTE 304 Concepts in Science	3 credits
EDTE 331 Instructional Methods: Reading, Writing, Communication II	3 credits
EDTE 331L Field Experience	1 credit
EDTE 400 Elementary Methods: Music	1 credit
EDTE 401 Elementary Methods: Mathematics	3 credits
EDTE 401L Field Experience	1 credit
EDTE 402 Elementary Methods: Social Studies	3 credits
EDTE 403 Elementary Methods: Art	1 credit
EDTE 404 Elementary Methods: Science	3 credits
EDPE 415 Physical Education Methods	1 credit
EDTE 416 Health Education Methods	1 credit
EDTE 417 Abuse Prevention (<i>non-CCL majors only</i>)	1 credit
EDTE 460E Classroom Management: Elementary	3 credits
EDTE 496E Elementary Student Teaching	12 credits
EDTE 495 Student Teaching Professional Seminar	2 credits
EDSE 450 Special Education Seminar	1 credit

Secondary Education Certification Program Requirements:

EDTE 101 Social and Cultural Foundations of Education	3 credits
HIST 108 Intro to Pacific Northwest History	3 credits
EDSE 150 Psychology of Children with Exceptionalities	3 credits
EDTE 213 Since Time Immemorial OR	3 credits
EDTE 221S Differentiated Instruction and Assessment	3 credits
EDTE 221L Field Experience	3 credits
EDTE 241 Teaching in the Middle School	3 credits

Must be taken as a block:

EDTE 315S Classroom Assessment for Secondary Teachers	3 credits
EDTE 418 Multiliteracies in the Secondary Classroom	3 credits
EDTE 418L Field Experience	1 credit

Secondary Specific Methods (EDTE 454 D, E, F, M, S, T)

One methods course is required for each endorsement area (Fall Only)

EDTE 454D Secondary Methods-Theater Arts	3 credits
EDTE 454E Secondary Methods-English	3 credits
EDTE 454F Secondary Methods-Social Studies	3 credits
EDTE 454M Secondary Methods-Mathematics	3 credits
EDTE 454S Secondary Methods-Science	3 credits
EDTE 454T Secondary Methods-World Language	3 credits
(Music Education and Physical Education majors will take methods in their degree program)	
EDTE 454L Secondary Field Experience	1 credit
EDTE 455L Field Experience: Additional Endorsement (Required for additional endorsements)	1 credit
EDTE 460S Classroom Management: Secondary	3 credits
EDTE 496S Secondary Student Teaching	12 credits
EDTE 495 Student Teaching Professional Seminar	2 credits
EDSE 450 Special Education Seminar	1 credit

Admission to Student Teaching Requirements:

1. All certification and endorsement course work must be completed prior to student teaching.
2. Cumulative GPA of 2.5 or higher in all GU courses.
3. C or better in all EDTE and MTSL courses.
4. Has taken the basic skill assessment in each category: Reading, Writing, and Math with minimum scores in either the WEST B, SAT, ACT
5. Current Washington State Pre-residency clearance.
6. Current FBI/Washington State Patrol Fingerprint Clearance on file.
7. No uncorrected documented disposition concerns.
8. WEST E or NES taken prior to Student Teaching. Meeting the state's established minimum score on the WEST E or NES endorsement test is required for certification.
9. Candidate must apply for student teaching the year prior.

Optional Endorsements offered within the School of Education

Teacher certification students (elementary and secondary) can also earn an English Language Learner (ELL) and/or Reading Endorsement. These are not stand-alone endorsements but optional endorsements that enhance the skills of Elementary and Secondary candidates.

English Language Learner (ELL) Endorsement: 14 credits

MTSL 304 Immigrant and Refugee Perspectives	3 credits
MTSL 401 Theory and Practice of Language Teaching	3 credits
MTSL 408 Principles of Second Language Acquisition	3 credits
EDTE 466 Literacy for English Language Learners	3 credits
MTSL 450 Language Awareness	1 credit
MTSL 480 TESOL Field Experience	1 credit

Reading Endorsement: 17 Credits

EDTE 231 Reading, Writing, & Communication I	3 credits
EDTE 331 Reading, Writing & Communication II	3 credits
EDTE 331L Field Experience	1 credit
EDTE 461 Reading Diagnosis	3 credits
EDTE 462 Child and Adolescent Literature	3 credits
EDTE 464 Reading Practicum	1 credit
EDTE 466 Literacy for English Language Learners	3 credits

Washington state certification requirements may change. Students are responsible to stay current by checking with their School of Education advisor and the Director of Certification.

Courses:

Teacher Education

EDTE 101 Social and Cultural Foundations of Education **credit(s): 3**

This course provides an overview of the teaching profession. It is designed as an exploration of teaching as a career choice, serving as an introduction to various philosophical positions regarding education, the laws that affect students and teachers, the global and historical background of our current educational systems, and the issues concerned with recognizing, accepting, and affirming diversity.

Fulfills the following degree requirement(s): Core: Social Justice

EDTE 190 Directed Study **credit(s): 1-4**

Course repeatable for 9 credit.2 time.

Topic to be decided by faculty.

EDTE 193 First Year Seminar **credit(s): 3**

Fulfills the following degree requirement(s): Core: First Year Seminar

EDTE 200 Language, Society, and Power credit(s): 3

This course introduces students to foundational concepts in linguistics, with particular emphasis on how language, culture, and society intersect and how linguistic choices reinforce or undermine power relations in society. Students will develop an understanding of what constitutes language and how languages create and maintain identities within communities.

EDTE 193 Learning Theory and Epistemologies credit(s): 3

This course is designed to introduce the undergraduate teacher candidate to theories of learning. The contributions of behaviorism, humanistic psychology, and cognitive psychology will be examined in order to give a basis for critically analyzing how and why human development and growth occur in the teaching/learning act. Based on the dynamics of respect for individual differences within the learning community, prior learning, and authentic scholarly exploration of historical and current literature, student teacher candidates will be able to articulate, develop, and seek alternatives to their theories-in-use.

Fulfills the following degree requirement(s): Core: First Year Seminar

Prerequisite(s): EDTE 101 (or concurrent)

EDTE 202 Community and Ethnography credit(s): 3

Using a variety of frameworks and tools, students will investigate the language and culture of carefully selected communities. Students will learn how to describe events without interpretation and work collaboratively to formulate possible hypotheses about cultures.

Equivalent(s): MTSL 202

Prerequisite(s): EDTE 200

EDTE 204 Community Languages and Language Acquisition credit(s): 3

This course is an introduction to first and additional language acquisition through the lens of an introductory course in two of the languages and writing systems used in the Spokane region. The purpose of the course is to introduce students to the languages and cultures of minority groups and to explore the ways in which the worldviews of these groups differ from those of the dominant culture. The course will also introduce students to the principal theories of first and second language acquisition.

EDTE 206 Community and Place-Based Education credit(s): 3

This course introduces students to foundational concepts in community and place-based education practices, with particular emphasis on theories and strategies that support the co-creation of K-12 and community-based educative experiences anchored in the unique contextual elements of place. Students will investigate and engage in local collective impact efforts that reflect a unique community context.

EDTE 213 Since Time Immemorial credit(s): 1

The purpose of this course is to prepare future teachers with a basic pedagogical orientation to Pacific Northwest history focusing on the complexity, diversity, richness, and resiliency of Native peoples in this region. Students will also become familiar with the content and purpose of Washington state's Since Time Immemorial curriculum resources.

EDTE 221L Field Experience **credit(s): 1**

Course repeatable for 2 credit.

Teacher candidates will have the opportunity to explore firsthand the instruction, assessment, and technology practices that are at work in schools. Candidates also gain pedagogical practice by working with students and teaching a lesson. Teacher candidates are required to submit a Field Experience Request form to the Field Experience Office a minimum of a month prior to the semester they are taking the course. This form can be found on Blackboard under Teacher Certification & Field Experience Materials Course. The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Prerequisite(s): EDTE 101(and EDTE 221E (or concurrent) or EDTE 221S (or concurrent))

EDTE 221S Sec Diff Instruct and Assess **credit(s): 3**

This course is designed to integrate the planning, implementation, and assessment of instruction across content areas at the secondary level with a special emphasis on diversity. The major focus of this course will be meeting the learning needs of a diverse population which includes students from different racial, ethnic, ability, socio-economic status, language and sexual orientation backgrounds.

Corequisite(s): EDTE 221L, EDTE 241

Prerequisite(s): EDTE 101

EDTE 231 Instruct Methods: Reading/Writing/Communication I **credit(s): 3**

The primary purpose of this course is to provide opportunities for teacher candidates to understand theoretical constructs related to reading, writing, and communication in classroom curriculum. Teacher candidates will develop pedagogy from an analysis of the processes of natural learning, language acquisition, multiple intelligence, and learning styles. This knowledge will become the framework for instructional methodology for reading, writing, and communication skills.

EDTE 241 Teaching in the Middle School **credit(s): 3**

The purpose of this course is to help the prospective middle level/secondary teacher candidate develop in-depth knowledge and understanding of early adolescents. The middle school reform movement and the developmental characteristics and needs of adolescents provide a framework for this course.

Corequisite(s): EDTE 221L

Prerequisite(s): EDTE 101

EDTE 304 Concepts in Science **credit(s): 3**

This course presents earth, physical, and space science concepts for elementary teacher candidates. Spring only.

Equivalent(s): EDTE 404

EDTE 305 Intercultural Competence Development **credit(s): 3**

This course addresses social justice by introducing students to a developmental process of acquiring cultural self-awareness, developing knowledge and skills that build intercultural competence, and engaging in meaningful reflective self-evaluation. Intercultural Competence involves a set of cognitive, affective, and behavioral skills and characteristics that support appropriate and effective interaction in a variety of cultural contexts (Bennett, J., 2008). This

process begins with recognizing new perspectives about personal cultural beliefs, values, and assumptions; and exploring others' cultures and worldviews. The opportunity to understand the worldviews of others will occur through reading and discussion, learning from speakers representing a variety of cultural backgrounds, refugee simulation at World Relief Refugee Resettlement, and reflection.

Fulfills the following degree requirement(s): Leadership elective

EDTE 306 Critical Pedagogical Issues American Education credit(s): 3

This course is designed to examine issues in education from the perspective of Native American students, and to provide educators with knowledge and skills that will increase their comfort level, competency and ability to work in schools where American Indian children and other diverse students are educated. Course content will include an overview of important historical and cultural factors, the study of current methods based on research and experiences of practitioners in the field, and a practicum in the development of effective educational strategies and materials, specifically the Washington State Since Time Immemorial curriculum.

EDTE 315E Classroom Assessment Elementary Teachers credit(s): 3

This course will introduce and practice the processes of assessing whether students are meeting desired classroom outcomes, addressing the question, "How do we know our students learned the material?" Multiple methods and types of classroom assessments will be analyzed and evaluated for the purposes of creating a systematic framework that implements, collects, and reviews assessment data. The following assessment components will be discussed, applied and evaluated: timely and appropriate feedback; formative, summative and diagnostic methodologies; classroom assessment instruments; self-assessment applications; clear criteria; scoring guides and rubrics; student voice; and content-specific assessment practices. Fall.

Prerequisite(s): EDTE 221E and EDTE 221L

EDTE 315S Classroom Assessment Secondary Teachers credit(s): 3

This course will introduce and practice the processes of assessing whether students are meeting desired classroom outcomes, addressing the question, "How do we know our students learned the material?" Multiple methods and types of classroom assessments will be analyzed and evaluated for the purposes of creating a systematic framework that implements, collects, and reviews assessment data. The following assessment components will be discussed, applied and evaluated: timely and appropriate feedback; formative, summative and diagnostic methodologies; classroom assessment instruments; self-assessment applications; clear criteria; scoring guides and rubrics; student voice; and content-specific assessment practices. Spring.

Corequisite(s): EDTE 418, EDTE 418L

Prerequisite(s): EDTE 221S and EDTE 221L

EDTE 321 Social Emotional Learning in Classroom and Community credit(s): 3

This course offers candidates the opportunity to learn communication and intervention skills that can be used within any instructional setting. Supportive behavior and resource management techniques are addressed that result in logical consequence, assisting the student in accepting responsibility for behavior. This course focuses on a multitude of methods and modalities in order to address various learning styles and reduce non-academic stressors. There is a focus on mastery of social and emotional skills in addition to academic ones, as well as adverse childhood experiences (ACEs) and a trauma-sensitive learning environment. This course

meets the RCW 28A.410.035 and WAC 181-79A-200 requirement (issues of abuse) for CCL Elementary majors only as of Fall 2023.

EDTE 331 Instruct Methods: Reading/Writing/Communication II credit(s): 3

The purpose of this course is twofold: one, to prepare teacher candidates to create appropriate lesson plans for literacy instruction and assessment in order to provide opportunities for children to become involved with literacy in a purposeful and meaningful manner. Second, to prepare teacher candidates to become aware and utilize available literary resources, including technology for teaching. An emphasis of this course will be the compatibility of methods of instruction and assessment with regard to Washington State Standards/Common Core Standards. Fall and Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Corequisite(s): EDTE 331L

EDTE 331L Field Experience credit(s): 1

Teacher candidates will have the opportunity to explore first-hand Literacy instruction, assessment, and technology practices that are at work in schools. This course will aid the teacher candidate to focus and integrate learning by observing, teaching, reflecting, and analyzing instructional events occurring at the school site. The course will enable the teacher candidate to observe and participate in instructional decision making, strategies for differentiation, and various assessment modes. The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): EDTE 331

Prerequisite(s): EDTE 221L

EDTE 390 Directed Study credit(s): 1-4

Course repeatable for 9 credit.

Topic to be decided by faculty.

EDTE 400 Elementary Methods: Music credit(s): 1

This course presents theories and techniques appropriate to teaching Music in the elementary school.

Prerequisite(s): EDTE 221E

EDTE 401 Elementary Methods: Math credit(s): 3

This course is designed to prepare or teacher candidates for teaching Mathematics in an elementary classroom. Candidates will learn and apply content specific pedagogy, understand the mathematical practices, plan assessment to monitor student learning and foster a mathematical learning environment within the classroom.

Corequisite(s): EDTE 401L

Prerequisite(s): EDTE 221E and MATH 104

EDTE 401L Field Experience credit(s): 1

Course repeatable for 3 credit.

Teacher candidates will have the opportunity to explore first-hand mathematical instruction, assessment, and technology practices that are at work in schools. This course will aid the teacher candidate to focus and integrate learning by observing, teaching, reflecting, and analyzing instructional events occurring at the school site. The course will enable teacher

candidate to observe and participate in instructional decision-making, strategies for differentiation, and various assessment modes. The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): EDTE 401

EDTE 402 Elementary Methods: Social Study **credit(s): 3**

This course presents theories and techniques appropriate to teaching Social Studies in the elementary school.

Prerequisite(s): EDTE 221E and HIST 108

EDTE 403 Elementary Methods: Art **credit(s): 1**

This course presents theories and techniques appropriate for teaching Art in the elementary school.

Prerequisite(s): EDTE 221E

EDTE 404 Elementary Methods: Science **credit(s): 3**

This course is designed to prepare teacher candidates for teaching Science in an elementary classroom. Candidates will understand how students learn and develop scientific knowledge, learn and apply content specific pedagogy, plan assessments to monitor student learning, and foster inquiry in the classroom learning environment. Spring only.

Prerequisite(s): EDTE 221E and EDTE 304 and BIOL 181L

EDTE 415 Elementary Physical Education Methods **credit(s): 1**

This course will provide students both theoretical and practical experience in learning how to design and implement a physical education program at an elementary level. It will introduce the students to objectives of physical education, activities that can be implemented at specific grade levels, general fitness concepts, and techniques of teaching in a physical activity environment, assessment protocol, and the importance of physical education as an integral part of general education. An experimental and cross disciplinary approach will be taken to developing and implementing effective learning experiences in physical education for K-8 students.

Corequisite(s): EDTE 416

EDTE 416 Elementary Health Methods **credit(s): 1**

This course provides an in-depth student to a variety of teaching styles and strategies, curriculum planning and evaluation methods appropriate for teaching health education.

Corequisite(s): EDTE 415

EDTE 418 Multiliteracies in the Secondary Classroom **credit(s): 3**

This course presents theory and practice for developing multiliteracies in secondary classrooms, including the structure and development of language and its expression in specific disciplines. In particular, students gain competencies in working with texts, supporting academic language development, and adapting instruction to make it accessible to multilingual learners. All of this is considered in the context of 21st century literacies and an ever-changing technological landscape.

Corequisite(s): EDTE 418L

Prerequisite(s): EDTE 221S or EDTE 221L

EDTE 418L Field Experience **credit(s): 1**

Course repeatable for 2 credit.

Teacher candidates will have the opportunity to explore the instruction, assessment, and technology practices that are at work in schools. Teacher candidates are required to submit a Field Experience Request form to the Field Experience office a minimum of a month prior to the semester they are taking the course. The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): EDTE 315S, EDTE 418

EDTE 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: “Imagining the possible: What is our role in the world?” by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students’ future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

EDTE 454D Secondary Methods - Theater Arts **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

EDTE 454E Secondary Methods - English **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

EDTE 454F Secondary Methods - Social Study **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

Prerequisite(s): EDTE 469 (or concurrent)

EDTE 454L Field Experience **credit(s): 1**

Course repeatable for 6 credit.

Teacher candidates will have the opportunity to explore firsthand the instruction, assessment, and technology practices that are at work in schools. This course will aid the teacher candidate to focus and integrate learning by observing, teaching, reflecting, and analyzing instructional events occurring at the school site. This course will enable teacher candidates to observe and participate in instructional decision-making, strategies for differentiation, and various assessment models. Teacher candidates are required to submit a Field Experience Request form to the Field Experience office a minimum of a month prior to the semester they are taking the course. The field experience requires a minimum of 30 hours in the classroom and travel by car

may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and . In addition, current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file. Fall Only.

Corequisite(s): EDTE 460S

Prerequisite(s): EDTE 454F (or concurrent) or EDTE 454M (or concurrent) or EDTE 454S (or concurrent) or EDTE 454E (or concurrent) or EDTE 454T (or concurrent)EDTE 454D (or concurrent)

EDTE 454M Secondary Methods - Math **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

EDTE 454S Secondary Methods - Science **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

EDTE 454T Secondary Methods - World Lang **credit(s): 3**

Discipline Specific Methods address strategies, assessment, and student activities in the academic areas approved for endorsements. Fall only.

Corequisite(s): EDTE 454L, EDTE 460S

EDTE 455L Field Experience: Additional Endorsement **credit(s): 1**

Course repeatable for 2 credit.

This is a lab course which will accommodate teacher candidates who add-on an additional endorsement. This course must be taken concurrently with an EDTE 454 Discipline Specific Methods course. The field experience requires a minimum of 30 hours in the classroom and travel by car may be required. In addition, current fingerprint clearance from the WSP and FBI throughout the semester and a Character and Fitness form on file is required. Fall only.

Prerequisite(s): EDTE 454E (or concurrent) or EDTE 454F (or concurrent) or EDTE 454D (or concurrent) or EDTE 454M (or concurrent) or EDTE 454S (or concurrent) or EDTE 454T (or concurrent)

EDTE 460E Classroom Management and Communication Elementary **credit(s): 3**

Teacher candidates are provided with strategies to manage the elementary classroom to create a motivated classroom climate, to communicate with teacher candidates, parents, school, and community agencies, and to deal effectively with problem situations, management, instructional approaches, and corrective measures. Teacher as leader will be the primary metaphor which requires candidates to investigate the role of power and communication in teaching. Fall only.

Prerequisite(s): EDTE 221E and EDTE 221L

EDTE 460S Classroom Management Secondary **credit(s): 3**

Teacher candidates are provided with strategies to manage the secondary classroom, to create a motivated classroom climate, to communicate with student teacher candidates, parents, school, and community agencies, and to deal effectively with problem situations, management, instructional approaches, and corrective measures. Teacher as leader will be the primary

metaphor which requires candidates to investigate the role of power and communication in teaching. Fall only.

Corequisite(s): EDTE 454L

Prerequisite(s): EDTE 221S and EDTE 221L and EDTE 241

EDTE 461 Reading Diagnosis **credit(s): 3**

This course provides teacher candidates with the in-depth knowledge and skills to identify and diagnose reading strengths and deficiencies of K-12 students. Appropriate instructional strategies for remediation and extension are developed. This class incorporates field experience components. Spring only.

EDTE 462 Child and Adolescent Literature **credit(s): 3**

This course surveys classical and contemporary literary works for children and youth, preschool-early adolescent. Assessment and teaching strategies for the utilization of literature across the K-12 curriculum are presented. Fall only.

EDTE 464 Practicum-Reading **credit(s): 1**

This course creates and applies literacy instruction and assessment strategies in a K-12 classroom setting. A school location is arranged. Practicum requires completion of a form, and department permission and cannot be registered for via Zagweb. 1 credit = 30 contact hours.

EDTE 466 Literacy for English Language Learner **credit(s): 3**

This course provides literacy knowledge related to working with English Language Learners. Teacher candidates will create classroom materials for K-12 learners to support their literacy and language development. Students will develop knowledge translated into practical application through the creation of lesson plans, instructional materials and tutoring.

EDTE 469 The Five Themes of Geography **credit(s): 3**

This course is an introduction to the five themes of geography, location, place, human environment interaction, movement, regions. This course fulfills the geography requirement for a Social Studies endorsement. Spring only.

EDTE 490 Directed Reading **credit(s): 1-4**

Course repeatable for 9 credit.

Directed Reading requires completion of a form, and Department permission.

EDTE 491 Directed Study **credit(s): 1-3**

Course repeatable for 9 credit.

Individualized study that is designed by the professor. Student teacher candidates follow a prescribed course outline.

EDTE 492 Independent Study **credit(s): 1-4**

Course repeatable for 9 credit.

Individualized study that is designed by the student teacher candidate in consultation with the professor. Self-directed learning in a selected area of interest is the process employed.

Professor serves as resource.

EDTE 494 Special Project **credit(s): 1-6**

Course repeatable 2 time.

Individualized study that is project-based. The study results in a practical application of educational theory. The project or a written report of the project is submitted to the professor for evaluation.

EDTE 495 Student Teaching Professional Seminar **credit(s): 2**

Prerequisite(s): EDTE 496E (or concurrent) or EDTE 496S (or concurrent)

EDTE 496E Elementary Student Teaching **credit(s): 12**

This is a culminating 16 week capstone experience in which the teacher candidate assumes the full responsibility of an elementary teacher under the direction of a University supervisor and a co-operating teacher. Seminars are provided for student interaction, problem solving, certification requirements, and informational support. Current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): EDTE 495

Prerequisite(s): EDPE 417 and EDTE 400 and edte 402 and EDTE 403 and EDTE 404 and (EDSE 465 or EDTE 460E) and (EDPE 497A-497C, 1 credit or EDSE 406 or EDTE 331L) and (EDPE 497A-497D, 1 credit or EDTE 401L) and (EDPE 312 or EDPE 416) and (EDSE 451 or EDTE 331) and (EDSE 45

EDTE 496S Secondary Student Teaching **credit(s): 12**

This is a culminating 16 week capstone experience in which the teacher candidate assumes the full responsibility of a secondary teacher under the direction of a University supervisor and a co-operating teacher. Seminars are provided for student interaction, problem solving, certification requirements, and informational support. Current fingerprint clearance from the WSP and FBI throughout the semester and Pre-Residency Clearance is on file.

Corequisite(s): EDSE 450, EDTE 495

Prerequisite(s): EDPE 417 and EDTE 418 and EDTE 315S and (EDPE 497C or EDTE 454L) and EDTE 454D-T, 1 course, and EDTE 460S

Courses:

Teacher English as a Second Language

MTSL 200 Language, Society, and Power **credit(s): 3**

This course introduces students to foundational concepts in linguistics, with particular emphasis on how language, culture, and society intersect and how linguistic choices reinforce or undermine power relations in society. Students will develop and understanding of what constitutes language and how languages create and maintain identities within communities.

MTSL 202 Community and Ethnography **credit(s): 3**

Using a variety of frameworks and tools, students will investigate the language and culture of carefully selected communities. Students will learn how to describe events without interpretation and work collaboratively to formulate possible hypotheses about cultures.

Equivalent(s): EDTE 202

Prerequisite(s): EDTE 200 or MTSL 200

MTSL 204 Community Languages and Language Acquisition **credit(s): 3**

This course is an introduction to first and additional language acquisition through the lens of an introductory course in two of the languages and writing systems used in the Spokane region. The purpose of the course is to introduce students to the languages and cultures of minority groups and to explore the ways in which the worldviews of these groups differ from those of the dominant culture. The course will also introduce students to the principal theories of first and second language acquisition.

MTSL 304 Immigrant and Refugee Perspective credit(s): 3

Course repeatable for 6 credit.

Designed for students interested in sociocultural perspectives on identity and language and their intersection in diverse cultural communities, this course looks at the experience of immigrant populations in the USA and in the Spokane area, through the lens of their cultural and linguistic adjustment. An average of one hour of service per week is expected of all participants in this course.

Fulfills the following degree requirement(s): Core: Global Studies

MTSL 401 Theory and Practice of Language Teaching credit(s): 3

This course investigates current theories in second language acquisition and ESL/EFL methodology. Students learn how to apply these methods to the specific needs of language learners while observing, assisting and teaching. The summer offering is an intensive 4 week course where students apply specific methods during a TESOL Field Experience co-requisite course (MTSL 480).

MTSL 404 Introduction to Sociolinguistics credit(s): 3

This course will examine how communication in ESL education shape relationships with non-members and members of a community. In particular, it will examine how the control of communication in bilingual and ESL education affects cognitive, social-cultural, affective, and linguistic development in bilingual and ESL classrooms. Theories studied in this course will help build an understanding of how to observe and analyze the effects of communication patterns on learning opportunities for ESL students.

MTSL 408 Principles of Second Language Acquisition credit(s): 3-4

This course will investigate some of the major theoretical concepts that have developed in the field of second language learning and teaching with emphases on the concepts of interaction, learner strategies, routines, negotiating meaning, motivation and developmental processes within sociocultural contexts.

MTSL 414 Literacy and English Lang Learner credit(s): 3

This course will involve discussion and review of relevant research in second-language reading and writing. It also includes a critical investigation of research to implementation in the language classroom.

MTSL 450 Language Awareness credit(s): 1

This course will cover the basics of syntax along with the common metalanguage that enables teachers to talk about grammar, as well as broader issues of language structure in general.

MTSL 480 TESOL Field Experience credit(s): 1

Course repeatable for 15 credit.

An integral feature of the Theory and Practice of Language Teaching course (MTSL 401) is the TESOL Field Experience which provides a unique opportunity for its participants to work with ESL students of various ages, nationalities, and proficiency levels. Included in this enhanced hands-on experience are opportunities for observation, teaching, and participation in social activities with ESL students.

MTSL 490 Independent Study credit(s): 1-6

Course repeatable for 12 credit.

School of Engineering and Applied Science

Interim Dean: Dr. Jennifer Shepherd

Associate Deans: Dr. Tim Fitzgerald, Dr. Rhonda Young

Assistant Dean: Joan Sarles

Engineering is the profession in which a knowledge of natural sciences and mathematics is applied with judgment to develop ways to utilize, economically, sustainably, and with concern for the environment and society, the materials and forces of nature for the benefit of humankind. Engineers and scientists pursue a common goal of introducing new knowledge through research. The new knowledge is applied by the engineers to create new devices and systems. Engineers enjoy a unique professional satisfaction: they can usually point to tangible evidence of their efforts. For example, every bridge, skyscraper, television set, computer, robot, airplane, power plant, or automobile is a lasting testimonial to the engineers responsible for it.

It is difficult, maybe impossible, to imagine contemporary civilization without computing machines and the software that brings them to life. The Department of Computer Science trains students to meet the expanding quantitative needs of society and provides them with the theoretical structures from which practical applications derive. Majors in this department are well-prepared for positions in industry and government demanding quantitative techniques or computer science, and for graduate work.

The over-arching goal of the undergraduate programs in the School of Engineering and Applied Science (SEAS) at Gonzaga University is to provide an education that prepares the student with a baccalaureate degree to be a professional engineer or computer scientist. In addition, the programs provide a base both for graduate study and for lifelong learning in support of evolving career objectives, which include being informed, effective, and responsible participants in the profession and society. It is also an education that is designed to challenge the intellect of the student and help him/her learn the value and reward of analytical and logical thinking.

All departments within the School therefore share a common mission of equipping graduates to enter professional practice. This is summarized by our School's Mission Statement:

The School of Engineering and Applied Science at Gonzaga University produces broadly educated and capable engineers and computer scientists ready to contribute innovative solutions for a better world.

This statement is consistent with the University's mission and specifically implements the following section of that mission statement:

- Gonzaga models and expects excellence in academic and professional pursuits and intentionally develops the whole person: intellectually, spiritually, physically, and emotionally
- Through engagement with knowledge, wisdom, and questions informed by classical and contemporary perspectives, Gonzaga cultivates in its students the capacities and dispositions for reflective and critical thought, lifelong learning, spiritual growth, ethical discernment, creativity, and innovation.

In both Engineering and Computer Science

- Develop engineered solutions that are well conceived and carefully implemented to meet public and private sector needs.
- Contribute effectively to organizations as leaders and / or as team members.
- Foster personal and organizational success in a dynamic globalized professional environment.
- Improve society by applying Jesuit, humanistic values to their professional and civic responsibilities.

Additional objectives identified with the Computer Science program

- Earn advanced degrees in computer science or professional credentials.
- Contribute to the development of the next generation of information technology either through research or through practice in a corporate setting.
- Bring a critical intelligence, formed through the University's commitment to liberal humanistic learning, to the development of information technology.

A concerned and well-trained faculty, easy access to faculty outside the classroom, and modern facilities provide Gonzaga University students with the knowledge and skills to become productive engineers or computer scientists and to assume leadership roles in business, industry, and government. A unique feature of the program is the strong emphasis on liberal arts education. A strong and rigorous technical curriculum combined with a broad liberal arts education emphasizing communication skills, critical thinking, and ethics enables Gonzaga graduates to adapt to an ever-changing computing, engineering, social, political, and business environment.

Degree Programs and Accreditation

SEAS offers four-year Bachelor of Science degrees in Civil Engineering (BSCE), Computer Engineering (BSCpE) Electrical Engineering (BSEE), Engineering Management (BSEM), Mechanical Engineering (BSME), Computer Science (BSCS) and a Bachelor of Arts degree in Computer Science and Computational Thinking.

The Bachelor of Science in Civil Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Civil and Similarly Named Engineering Programs Program Criteria.

The Bachelor of Science in Computer Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

The Bachelor of Science in Electrical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

The Bachelor of Science in Mechanical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Mechanical and Similarly Named Engineering Programs Program Criteria.

The Bachelor of Science in Engineering Management degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Engineering Management and Similarly Named Engineering Programs Program Criteria.

The Bachelor of Science in Computer Science degree program is accredited by the Computing Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria.

Center for Engineering Design and Entrepreneurship

Engineering and computer science are rapidly changing professions. The fast pace of technological advances and new approaches to organizing the work place are requiring engineers and software developers to continually update their training. In addition to having a broad range of technical knowledge, today's engineers and software developers are expected to possess excellent interpersonal skills. They must be able to deal with open-ended design problems, to work cooperatively in a team environment, to communicate effectively, and to understand the technical, economic, environmental, and managerial aspects of projects.

The diverse skills required of modern engineers and software developers cannot be learned solely in a classroom or from a textbook. These skills are best learned through a combination of observation, emulation, analysis, and experimentation. This demands a high degree of interaction between the student and experienced engineers and computer scientists. Interpersonal skills are best developed through team work. Industry has discovered that the

give-and-take process that characterizes a well-motivated team is a key element to a project's success.

The Center for Engineering Design and Entrepreneurship enhances the experience of students in the engineering and computer science programs at Gonzaga University by promoting interaction between the industrial and academic communities. Student teams, under the guidance of industry engineers and GU faculty, undertake design projects defined by sponsors in both the private and public sectors, or through proposals submitted by student teams. A project team typically consists of three to five students, often from different fields of study in the School of Engineering and Applied Science. Team members must make effective use of available resources to perform and manage the project activities. By working on a real-world problem, each student has the opportunity to make decisions under risk, to work as part of a team, and to interact with professionals in the private and public sectors. Further, working on technical projects that have real value to business, non-profits, and the government, encourages students to acquire new skills.

Gonzaga faculty members, who advise the student teams, are ideally suited as advisors. A faculty advisor lends knowledge and experience to the project team by guiding and counseling the students in the technical and managerial decisions required by the project.

A liaison from the sponsoring organization provides technical direction and advice to the student team, monitors the project's progress, and ensures that the project meets the needs of the sponsor. The liaison also assists the team in making the best use of the sponsor's resources and facilities.

Design projects related to all the SEAS disciplines are sought throughout the year. Sponsors who are supportive of SEAS education provide ideas, resources, and funds for projects. By identifying project topics and the technical areas that are of interest to them, they help direct students to realistic problems that are important to their operations.

At the end of the spring semester, student design teams present their projects and reports, and demonstrate models and prototypes. Industrial sponsors, faculty members, prospective students, and members of the community are invited to attend the event and to interact with the project teams.

Degree requirements for the School of Engineering & Applied Science

In addition to the general degree requirements of the University, including the University Core Curriculum (see below for engineering-specific adaptations to the core), students earning all Bachelor's degrees offered by the School of Engineering and Applied Science must complete the following requirements:

1. For engineering programs, completion of the following courses: MATH 258, 259, 260, PHYS 121/121L, and CHEM 101/101L. For computer science majors, please see the program description below.
2. Completion of certain program specific requirements.
3. Attainment of an average cumulative grade point of 2.00 in all SEAS course work taken at Gonzaga University

Please note: Every degree requires a minimum of 128 completed semester credits. No core, major, minor, or concentration courses may be taken under the Pass/Fail option.

The University Core for SEAS Engineering Majors

SEAS engineering majors will fulfill the requirements of the University Core through a combination of courses within the regular University Core curriculum combined with specific courses within Engineering. The engineering-specific substitutions for University Core courses are:

- Fine Arts & Design: Fulfilled through ENSC 491 &492

Additionally, engineering majors will be required to complete two of the following three core broadening courses: History, Literature, and/or Social & Behavioral Science. That is, one core broadening course will be waived. Students who enter with Advanced Placement (AP) or other college credits are strongly encouraged to complete all core broadening requirements.

Please note: Other than the waiver of one core broadening course (i.e., History, Literature, or Social & Behavioral Science), no other core *course* requirements will be waived.

SEAS computer science majors will complete the regular University Core.

Transfer students should consult the General Degree Requirements and Procedures section of this catalog for possible modifications to the Core requirements. Substitutions for discontinued courses are required and must be authorized by the proper University authorities.

Prerequisite to co-requisite override

If a student requires a class in which a prerequisite has been completed but failed, a prerequisite waiver may be available. The requirements for the waiver include:

1. The student must have completed all of the course work for the prerequisite class (yet received an F grade);
2. The prerequisite class is offered in the same semester as the required subsequent class;
3. The student must pass an exam that tests the concepts from the prerequisite class that are required in the subsequent class (this exam is administered by the faculty teaching the subsequent class, and will be completed before the semester in which the subsequent class begins).

If items [1] through [3] are completed, and there is approval from both the Department Chair and Dean, both the prerequisite class and subsequent class may be taken as co-requisites in the same semester. Note that if approved, the prerequisite class cannot be dropped unless the subsequent class is also dropped.

Table of Credits

	Degree.....	Major	Minor
Engineering Degrees			
Biomedical Engineering	BS.....	134	n.a.
Civil Engineering	BSCE	130-131	n.a.
Computer Engineering	BSCpE	130	18-21
Electrical Engineering	BSEE.....	130	18-21
Engineering Management	BSEM	130+	n.a.
Mechanical Engineering	BSME	140	n.a.
Applied Science Degrees			
Computer Science	BSCS.....	128	21
Computer Science and Computational Thinking	BA	128	n.a.
Minors only			
Data Science	.....	.....	21
Robotics	.....	.....	18-21
Software Application Development	.....	.....	21
Software Security	.....	.....	21

Biomedical Engineering

Director: Brandon Sargent

Professors: K. Hoo, B. Swanson, C. Talarico, B. Watson

Associate Professors: M. Baumgardner, P. Crosswhite

Assistant Professors: A. Crandall

Biomedical Engineering is a highly interdisciplinary program at Gonzaga University with the primary goal of improving the quality of life for people everywhere through the advancement of the medical industry. Biomedical engineers use their knowledge in science, engineering, and mathematics to design new solutions and solve problems in the medical field to help fulfill the Gonzaga Mission to be committed “to the dignity of the human person, social justice, diversity, intercultural competence, global engagement, solidarity with the poor and vulnerable, and care for the planet.”

The biomedical engineering field is extraordinarily broad, with careers in medical electronics and imaging, medical device design, biochemistry, biology, medicine, manufacturing, business, and human physiology. Students at Gonzaga are prepared for this through a thorough grounding in a variety of mathematical, scientific, and engineering fundamentals while allowing students to specialize later in the curriculum through their choices of technical electives. As one of the most interdisciplinary degrees on campus, students will develop a base in a variety of areas including biology, chemistry, physics, computer science, human anatomy and physiology, all in parallel to their engineering courses. The fundamentals are enhanced with exposure to important engineering tools such as: mathematical techniques; computer programming; computer applications including computer aided design (CAD), electronics, and laboratory equipment. All students engage in design courses beginning in their Freshman year leading to a culminating two-semester capstone design experience in the Senior year. The capstone experience typically entails requiring student design teams, led jointly by faculty and practicing engineers, to solve real industrial design problems. Finally, the degree requirements also include the opportunity for breadth as well as concentration in particular engineering applications through a group of technical electives taken in the senior year (the list of allowed technical electives is given below). Students must take 12 credits of technical electives. These electives come from a wide range of departments and some include accompanying 1 credit labs. Note that some classes on the technical elective list have additional prerequisites required outside of the standard curriculum or a course on this list may be a prerequisite for another technical elective on the list. Students are encouraged to plan accordingly and discuss their desired area of emphasis and course scheduling with their academic advisor. All semesters in the plan with technical electives have 17 or fewer credits to allow for the additional credit of those courses with an accompanying lab. Information is also available for students planning to enroll in the Gonzaga-in-Florence Engineering Semester program which can be done using the same course schedule as below.

The following curriculum details the course requirements for each semester. In addition to these courses, all students must take the Fundamentals of Engineering Examination prior to graduation (see ENSC 400, “Fundamentals of Engineering Exam” course in the Spring semester of the Senior year). Finally, students who follow a curriculum sequence other than that listed below should meet with their Academic Advisors at their first opportunity in order to resolve any scheduling conflicts that may arise due to off-schedule course availability and/or course pre- and co-requisite structure. In all cases, students must comply with the pre- and co-requisite requirements in order to be granted admission into courses.

The Bachelor of Science in Biomedical Engineering degree program is in the process of becoming accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

B.S. in Biomedical Engineering: 134 credits

First Year

Fall

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
DEPT 193 First Year Seminar	3 credits
MATH 157 Calculus - Analytical Geometry I	4 credits
COMM 100 Communication and Speech	3 credits
PHIL 101 Reasoning	3 credits

Spring

ENGL 101 Writing	3 credits
MATH 258 Calculus - Analytical Geometry II	4 credits
BIOL 105 Information Flow in Biological Systems	3 credits
BIOL 105L Information Flow in Biological Systems Lab	1 credit
MENG 291 Introduction to Mechanical Engineering Design	2 credits
MENG 291L Intro do Mech Engineering Design Lab	1 credit
PHIL 201 Human Nature	3 credits

Second Year

Fall

MATH 259 Calculus - Analytical Geometry III	4 credits
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab	1 credit
ENSC 205 Statics	3 credits

One of the following two courses	3 credits
CPSC 215 Introduction to Python	
ENSC 201 Programming for Engineers	
BIOL 106 Energy Flow in Biol. Systems	3 credits
Spring	
MATH 260 Ordinary Differential Equations	3 credits
MATH 321 Statistics for Experiment	3 credits
ENSC 306 Dynamics	3 credits
ENSC 301 Mechanics of Materials	3 credits
Ethics Core Elective	3 credits
RELI XXX World or Comparative Religion	3 credits
Third Year	
Fall	
CHEM 230 Organic Chemistry I	3 credits
CHEM 230L Organic Chemistry I Lab	1 credit
HPHY 241 Anatomy and Physiology I	3 credits
HPHY 241L Anatomy and Physiology I Lab	1 credit
EENG 201 Circuit Analysis I	3 credits
EENG 201L Circuit Analysis I Lab	1 credit
1st Core Broadening Requirement: (History, Literature, Social and Behavioral Science)	3 credits
Spring	
PHYS 122 Physics II	3 credits
PHYS 122L Physics II Lab	1 credit
One of the following two courses:	3 credits
BENG 320 Bio-Thermo/Fluid Science	
ENSC 355 Thermal Science	
Technical Elective	3 credits
2nd Core Broadening Requirement (History, Literature, Social and Behavioral Science)	3 credits
Fourth Year	
Fall	
ENSC 491 Senior Design Project I	2 credits
One of the following two courses:	3 credits
MENG 462 System Dynamics and Control	
EENG 411 Introduction to Control Systems	
BENG 410 Biotransport	3 credits

Technical Elective	3 credits
Technical Elective	3 credits
One of the following two courses	3-4 credits
BENG 301 Biomedical Signals	
EENG 311 Signals and Systems	
Spring	
ENSC 400 Fundamentals of Engineering Examination	0 credits
ENSC 492 Senior Design Project II	3 credits
BENG 421 Model of Biomed Systems	3 credits
BENG 421L Model of Biomed Systems Lab	1 credit
BENG 415 FDA Regulations and Ethics	2 credits
***Technical Elective	3 credits
BENG 432 Core Integration Seminar	3 credits

Technical Electives

The courses used to satisfy the technical elective requirements must normally be selected from the following list. However, students may take other courses for technical elective credits but only with the prior approval of both the student's academic advisor and the Director of the Biomedical Engineering program. The actual technical elective courses offered from the list below varies from year to year and the program may on occasion offer one or more pre-approved technical elective courses that are not listed below. By following the above curriculum, students are not guaranteed to have all the necessary prerequisites for every course on this list. Students wishing to take these courses should plan well in advance in order to comply with all admission requirements prior to enrolling in the course. All students must complete at least 12 credits of technical electives.

- BIOL 351 Advanced Cell Biology
- BIOL 351L Advanced Cell Biology Lab
- BIOL 207 Genetics
- BIOL 207L Genetics
- BIOL 456 Molecular Biology
- CHEM 231 Organic Chemistry II
- CHEM 231L Organic Chemistry II Lab
- CHEM 307 Biochemistry
- CHEM 307L Biochemistry Lab
- CHEM 308 Biochemistry II

- CHEM 405-480 Special Topics Electives
- HPHY 242 Anatomy and Physiology II
- HPHY 242L Anatomy and Physiology II Lab
- HPHY 274 Musculoskeletal Dynamics and Phys.
- HPHY 375 Biomechanics
- HPHY 375L Biomechanics Lab
- CPSC 222 Intro to Data Science
- CPEN 436 Machine Learning in Biomed
- EENG 322 Signals and Systems II
- EENG 401 Low Power Bioelectronics
- EENG 424 Digital Signal Processing
- MENG 221 Materials Engineering
- MENG 330 Machine Design
- MENG 468 Biomaterials Engineering
- MENG 456 Design for Manufacturing
- MENG 465 Introduction to Finite Element
- MENG 477 Material Selection for Design
- MENG 479 Tribology
- ENSC 481 Design for the Human Body
- PHYS 456 Biophysical Systems and Modeling
- PHYS 452 Optics

Civil Engineering

Chairperson: Mark Muszynski

Professors: N. Bormann (Emeritus), S. Ganzerli, M. Muszynski, S. Niezgoda, P. Nowak, R. Young

Associate Professors: J. Schultz, K. Shimabuku

Lecturer: R. Alkhatib

Civil engineers are problem solvers who utilize sophisticated technologies to find safe and sustainable solutions to a wide variety of the challenges facing our world. A civil engineer plans, designs, and supervises construction of numerous infrastructure facilities required by modern society. These facilities exist in both the public and private sectors, and vary in scope and size. Examples of civil engineering projects include bridges, roadways, buildings, transportation systems, irrigation water supply and treatment systems, wastewater collection and treatment systems, flood control and river restoration facilities, solid and hazardous waste management, and environmental restoration. Civil engineers have important roles in analysis, design, management, regulatory enforcement, and policy development. To participate effectively in this broad scope of activities, civil engineers acquire technical and problem solving skills, and the ability to communicate clearly and effectively. Students completing the requirements for a degree in civil engineering have a choice of technical electives from six subdiscipline areas: Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transportation Engineering, Water Resources Engineering, and Construction Engineering.

The department of Civil Engineering, in conjunction with its various constituencies, has clearly defined program objectives. These engineering program objectives are listed in the School of Engineering and Applied Science section of this catalog, and by the Gonzaga University Mission Statement that may be found at the beginning of the catalog.

The Bachelor of Science in Civil Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Civil and Similarly Named Engineering Programs Program Criteria.

B.S. in Civil Engineering: 130-131 Credits

First Year

Fall

DEPT 193 Core: First -Year Seminar	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
PHIL 101 Reasoning	3 credits
COMM 100 Communication and Speech	3 credits

Spring

CENG 225 Engineering Geology	3 credits
ENSC 205 Statics	3 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab and Recitation	1 credit
PHIL 201 Human Nature	3 credits
Second Year	

Fall

CENG 261 Introduction to Geomatics	2 credits
CENG 261L Introduction to Geomatics	1 credit
MATH 259 Calculus and Analytical Geometry III	4 credits
CENG 252 Civil Fluid Mechanics	3 credits
ENGL 101 Writing	3 credits
Religion Requirement: Christianity and Catholic Traditions	3 credits

Spring

ENSC 301 Mechanics of Materials I	3 credits
ENSC 306 Dynamics	3 credits
MATH 260 Ordinary Differential Equations	3 credits
MATH 321 Statistics for Experimentalists	3 credits
Religion Requirement: World or Comparative Religion	3 credits

Third Year

Fall

CENG 301 Structural Analysis I	3 credits
CENG 331 Soil Mechanics	3 credits
CENG 331L Soil Mechanics Lab	1 credit
CENG 318 Transportation Engineering	3 credits
Programming Elective	2-3 credits
CENG 380 Construction Materials and Engineering	2 credits
CENG 380L Construction Materials and Engineering Lab	1 credit

Spring

CENG 303 Environmental Engineering	3 credits
CENG 303L Environmental Engineering Lab	1 credit
CENG 391 Civil Engineering Design and Practice	3 credits
CENG 352 Water Resources Engineering	3 credits

CENG 352L Water Resources Engineering Lab	1 credit
CENG 412 Concrete Design	3 credits
Ethics Core Elective	3 credits

Fourth Year

Fall

CENG 404 Sustainable Systems and Design	3 credits
ENSC 491 Senior Design Project I	2 credits
Core Broadening Requirement- (two required; History, Literature, Soc & Behav Sci	3 credits
- - - Technical Elective	3 credits
- - - Technical Elective	3 credits
- - - Technical Elective	3 credits

Spring

ENSC 400 Fundamentals of Engineering Exam***	0 credits
CORE 432 CORE Integration Seminar	3 credits
ENSC 492 Senior Design Project II	3 credits
- - - Core Broadening Requirement	3 credits
- - - Technical Elective**	3 credits
- - - Technical Elective	3 credits

** Civil engineering students enrolled in the Hogan Entrepreneurial Program can waive one technical elective.

*** The Fundamentals of Engineering Examination must be taken as part of the ENSC 400 course.

Programming Electives

Courses from the following list satisfy the programming elective requirement. Programming elective courses must be a minimum of two credit hours. Others may be approved by department chair.

ENSC 244 Computer Methods for Engineers	3 credits
CPSC 121 Computer Science I	3 credits

Technical Electives

Courses from the following list satisfy the technical elective requirements. Students work with their faculty advisor to select five technical elective courses to create a specialized plan of study that can be highly specialized or with a broad focus among the civil engineering sub-disciplines: construction (C), environmental engineering (E), geotechnical engineering (G), structural engineering (S), Transportation (T), and water resources engineering (W).

Typically Offered in Fall

CENG 411 Steel Design (S)
CENG 417 Traffic Engineering (T)
CENG 424 Water Treatment Processes (E)
CENG 473 Foundations Design (G, S)

Typically Offered in Spring

CENG 415 Masonry and Timber Design (S)
CENG 418 Transportation Systems Design (T)
CENG 421 Stormwater Management (W, E)
CENG 422 Structural Systems Design (S)
CENG 444 Air Pollution (E)
CENG 450 Watershed Modeling (W, E)
CENG 480 Construction Management (C)

Occasionally Offered

CENG 413 Groundwater (E, G, W)
CENG 414 Waste Management (E)
CENG 427 Infrastructure Design (E, G, T, W)
CENG 454 Biological Treatment Processes (E)
CENG 464 Ground Behavior for Structures (G, S)
MENG 465 Introduction to Finite Elements (G, S)

Typically Offered Even-Number Summers

CENG 440 Gu-in-Delft: Sustainable Cities 3-week study abroad course in the Netherlands (E, G, S, T, W)

B.S. in Civil Engineering - Construction

Concentration: 136-137 Credits

First Year

Fall

DEPT 193 Core: Engineering First -Year Seminar I	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
PHIL 101 Reasoning	3 credits
COMM 100 Communication and Speech	3 credits

Spring

CENG 225 Engineering Geology	3 credits
ENSC 205 Statics	3 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab and Recitation	1 credit
PHIL 201 Human Nature	3 credits

Second Year

Fall

CENG 261 Introduction to Geomatics	2 credits
CENG 261L Introduction to Geomatics	1 credit
MATH 259 Calculus and Analytical Geometry III	4 credits
CENG 252 Civil Fluid Mechanics	3 credits
ENGL 101 Writing	3 credits
ECON 200 Economic Analysis	3 credits

Spring	
ENSC 301 Mechanics of Materials I	3 credits
ENSC 306 Dynamics	3 credits
MATH 260 Ordinary Differential Equations	3 credits
MATH 321 Statistics for Experimentalists	3 credits
Religion Requirement: Christianity and Catholic Traditions	3 credits
PHIL 301 Ethics	3 credits
Third Year	
Fall	
CENG 301 Structural Analysis I	3 credits
CENG 331 Soil Mechanics	3 credits
CENG 331L Soil Mechanics Lab	1 credit
Programming Elective	2-3 credits
CENG 380/L Construction Materials and Engineering + Lab	3 credits
ACCT 263 Accounting Analysis	3 credits
Spring	
CENG 303 Environmental Engineering	3 credits
CENG 303L Environmental Engineering Lab	1 credit
CENG 391 Civil Engineering Design and Practice	3 credits
CENG 352 Water Resources Engineering	3 credits
CENG 352L Water Resources Engineering Lab	1 credit
CENG 412 Concrete Design	3 credits
Religion Requirement: World or Comparative Religion	3 credits
Fourth Year	
Fall	
CENG 318 Transportation Engineering	3 credits
CENG 404 Sustainable Systems and Design	3 credits
CENG 411 Steel Design OR CENG 473 Foundation Design	3 credits
ENSC 491 Senior Design Project I	2 credits
Core Broadening Requirement: (two required Hist, Lit, Soc & Behav Sci)	3 credits
BUSN 283 Business Law	3 credits

Spring

ENSC 400 Fundamentals of Engineering Exam***	0 credits
CORE 432 Core Integration Seminar	3 credits
CENG 480 Construction Management	3 credits
ENSC 492 Senior Design Project II	3 credits
BFIN 320 Principles of Finance	3 credits
- - - Business Elective 1	3 credits
- - - Business Elective 2	3 credits

*** The Washington State Fundamentals of Engineering Examination must be taken as part of the ENSC 400 course.

Programming Electives

Courses from the following list satisfy the programming elective requirement. Programming elective courses must be a minimum of two credit hours. Others may be approved by the department chair.

ENSC 244 Computer Methods for Engineers	3 credits
CPSC 121 Computer Science I	3 credits

Minor in Business for Engineering Technologies: 21 credits

This minor is designed for engineering students (at present, students in the civil engineering and engineering management disciplines) at the undergraduate level. It recognizes the career skills employers are looking for in engineers pursuing engineering and construction management roles.

Required courses (15 credits)

ECON 200 Economic Analysis	3 credits
MATH 321 Statistics for Experimentalists	3 credits
ACCT 263 Accounting Analysis	3 credits
BFIN 320 Principles of Finance	3 credits
BUSN 283 Business Law	3 credits

Elective Courses (6 credits) *choose two of the following courses*

MKTG 310 Principles of Marketing	3 credits
ECON 324 Economics of Environmental Protection	3 credits
OPER 340 Operations Management	3 credits
MGMT 350 Principles of Management	3 credits
ENSC 405 Engineering Project Management	3 credits
BENT 490 Creativity, Innovation, and Entrepreneurship	3 credits

Courses:

CENG 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

CENG 225 Engineering Geology credit(s): 3

This course emphasizes physical geology and the Earth processes. The Earth's evolution, morphology, landforms, and its constituent minerals and rocks are featured. The goal of the course is to enable the student to appreciate the geological context of engineering and associated civil engineering projects, and the forces and phenomena which affect them.

Restriction(s):

Must be in the following Major(s): Civil Engineering

CENG 252 Civil Fluid Mechanics credit(s): 3

Covers fluid properties, hydrostatics, fluid dynamics, conservation of mass, momentum and energy for incompressible fluids, dimensional analysis, civil engineering applications including closed conduit/pipe flow. Stresses the control volume approach and Eulerian description of flow.

Restriction(s):

Must be in the following Major(s): Civil Engineering

Prerequisite(s): ENSC 205

CENG 261 Introduction to Geomatics credit(s): 2

Basic principles of surveying data collection, analysis, and application. Measurement of elevations, distances and angles using total stations and global positioning systems. Examples of analysis of errors in measurements; application of surveying data to engineering design using GIS and 3-D models. Fall.

Restriction(s):

Must not be the following Class(es): Freshman

Corequisite(s): CENG 261L

Prerequisite(s): MATH 157

CENG 261L Introduction to Geomatics Lab credit(s): 1

Hands on laboratory to complement the topics of CENG 261.

Restriction(s):

Must not be the following Class(es): Freshman

Corequisite(s): CENG 261

CENG 301 Structural Analysis I credit(s): 3

Theory and application of engineering mechanics to the solution of internal forces in statically determinate structures subjected to static and moving loads. Introduction of energy concepts for simple indeterminate structures.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): ENSC 301

CENG 303 Environmental Engineering credit(s): 3

An overview of the principles of environmental engineering. Topics include material balance, environmental chemistry, risk assessment, air quality, water quality, and water and wastewater treatment. Spring.

Equivalent(s): ENV5 421

Restriction(s):

Must be in the following Major(s): Civil Engineering

Corequisite(s): CENG 303L

Prerequisite(s): CHEM 101 or TRAN GCHM, minimum grade: T or TRAN GCHM

CENG 303L Environmental Engineering Lab credit(s): 1

This course emphasizes fundamental environmental chemistry principles and analytical techniques used to study air and water quality and treatment process performance. The course also emphasizes statistical analysis, data interpretation, and reporting requirements associated with environmental engineering. CENG 303 is a co-requisite or pre-requisite for this course.

Equivalent(s): ENV5 421L

Restriction(s):

Must be in the following Major(s): Civil Engineering

Corequisite(s): CENG 303

CENG 318 Transportation Engineering credit(s): 3

The course will cover general knowledge in all the transportation fields including; traffic characteristics and flow theory. transportation planning. geometric design of highways, traffic safety, highway materials, and pavement design. Fall.

Prerequisite(s): CENG 261

CENG 331 Soil Mechanics credit(s): 3

In this course the properties and behavior of soils (sand, gravel, silt and clay) are studied under various environmental conditions. The study includes weight-volume relations, soil classifications, soil compaction, seepage through porous media, normal effective stress concept, consolidation, shear strength, lateral pressures and slope stability. Laboratory and Field methods for evaluating pertinent properties, generally used for analysis and foundation design. Three hours of lecture and three hours of laboratory per week. Fall.

Corequisite(s): CENG 331L

Prerequisite(s): ENSC 301

CENG 331L Soil Mechanics Lab credit(s): 1

Hands on laboratory to complement the topics of CENG 331.

Corequisite(s): CENG 331

CENG 352 Water Resources Engineering credit(s): 3

Use of fluid mechanics in the engineering analysis and design of components of hydraulic and hydrologic systems. Hydraulics topics include closed conduit flow and water distribution

systems; pump selection and cavitation; steady, uniform, and gradually varied flow of water in open channels; specific energy and transitions; and culvert designs. Hydrology topics include watershed delineation; design rainfall; rainfall abstractions; unit/runoff hydrographs; peak flows; and reservoir routing/detention pond design. The associated lab course stresses a variety of practical hydraulic and hydrologic applications both in the lab and in the field including measuring pipe friction; developing pump curves and observing cavitation; analyzing hydraulic jumps; measuring flow with weirs and sluice gates; delineating watersheds; measuring infiltration rates; measuring streamflow; and the development and implementation of a student derived investigation.

Corequisite(s): CENG 352L

Prerequisite(s): CENG 252 or ENSC 352

CENG 352L Water Resources Engineering Lab **credit(s): 1**

Hands on laboratory to complement the topics of CENG 352.

Corequisite(s): CENG 352

CENG 380 Construction Materials and Engineering **credit(s): 2**

This course and laboratory course examines the manifesting and testing of various construction materials (including steel, aluminum, concrete, masonry, glass, timber, asphalt, etc.). Several laboratory experiments and field trips to local manufacturing and testing facilities are scheduled throughout the semester.

Prerequisite(s): ENSC 301

CENG 380L Construction Materials and Engineering Lab **credit(s): 1**

Hands on laboratory to complement the topics of CENG 380.

Corequisite(s): CENG 380

CENG 391 Civil Engineering Design and Practice **credit(s): 3**

An integration of topics essential to the practice of civil engineering, including: 1) engineering economics concepts; 2) project management approaches; 3) contract issues and project structures, and 4) general code of conduct of engineers and ethics. Engineering economy topics will include annual cost, present worth, future worth, and rate of return concepts. Students will develop an understanding of the elements of proposals, reports, construction drawings, and specifications. Engineering law, in the context of civil engineering project will be included to further illustrate the four main topics. Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

CENG 404 Sustainable Systems and Design **credit(s): 3**

This course explores the characteristics of sustainable systems and how design practices may encourage sustainability. Topics covered in the course will be selected for applicability to specific regions of the world and may change each year. Basic concepts include: building thermal performance, indoor and outdoor environmental quality, passive and active energy

systems, water reclamation strategies, life cycle analysis and current sustainable building rating systems. Sustainable design concepts and methods are also applied to building design site development and infrastructure use. Fall.

Fulfills the following degree requirement(s): ENVS - Science Tech elective

Equivalent(s): ENVS 422

Restriction(s):

Must be the following Class(es): Senior

CENG 411 Steel Design **credit(s): 3**

Application of basic principles of mechanics applied to the design of steel members. Design of structural members and connections using the current American Institute of Steel Construction specifications. Load and Resistance Factor Design and Allowable Stress Design procedures.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 301

CENG 412 Concrete Design **credit(s): 3**

Theory and application of analytical procedures applied to the design of reinforced concrete structural members. Proportioning of beams, columns, footings, and walls in concrete structures is approached using current American Concrete Institute code specifications.

Ultimate Strength Design Procedures.

Prerequisite(s): CENG 301

CENG 414 Waste Management **credit(s): 3**

An overview of solid, hazardous, and industrial waste management. Topics include regulations, contaminant transport, waste sources, waste minimization, recycling, treatment and remediation technologies, landfill design and risk assessment.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): ENVS 423

Prerequisite(s): CENG 303

CENG 415 Masonry and Timber Design **credit(s): 3**

Analysis and design of masonry and timber structures. Sizing of members in masonry and timber according to applicable building codes.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 301

CENG 417 Traffic Engineering **credit(s): 3**

Fundamentals of traffic engineering including traffic flow, capacity analysis, traffic signs and signals, and traffic engineering studies.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 318

CENG 418 Transportation System Design **credit(s): 3**

Application of national and local standards to transportation system design situations from a multimodal perspective. Course emphasizes geometric design of roadway facilities but also incorporates design considerations for pedestrians, bicycles, and transit.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 318

CENG 420 Structural Dynamics **credit(s): 3**

The analysis and response of structures to dynamic loads. Emphasis is given to dynamic loads due to earthquakes. Basic principles of the seismic design of structures.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): ENSC 306

CENG 421 Stormwater Management **credit(s): 3**

Basic principles in the application of hydrology, hydraulics, soil and water chemistry, environmental law, and public policy are presented to solve problems and design projects to manage urban stormwater runoff. Key topics covered include: hydrology of urban watersheds; floodplain management; storm drainage; stormwater detention/retention; water quality improvement; and the design of low impact development best management practices.

Fulfills the following degree requirement(s): CENG - Tech Elective

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): CENG 303 and CENG 352

CENG 422 Structural Systems Design **credit(s): 3**

Develop building code loads for structures. Approximate analysis methods for statically indeterminate structures. Matrix methods of structural analysis for 2-D and 3-D structures. Introduction to non-linear behavior of structural members.

Fulfills the following degree requirement(s): CENG - Tech Elective, MENG - Tech Elective

Prerequisite(s): ENSC 301

CENG 424 Water Treatment Processes **credit(s): 3**

The theory and design of water treatment processes. Develops contaminant fate and transport theory in engineered and natural systems focusing on reactor hydraulics and reaction kinetics. Granular and membrane filtration, coagulation, disinfection, ion exchange, adsorption, and gas transfer processes are designed for water and wastewater treatment systems. Additional topics include water reuse and water treatment for low-income, remote communities.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): ENVS 424

Prerequisite(s): CENG 303

CENG 426 Stream Restoration **credit(s): 3**

Course presents fundamentals of stream restoration: Hydrologic, sediment transport, geomorphic, and ecological principles applicable to (1) assessment of stream channel condition, (2) developing approaches to stream management and restoration, and (3) evaluating project performance. Approach emphasizes the inter-related nature of hydrology, hydraulics, sediment transport, geomorphology, fisheries, and aquatic and riparian ecology. Provides students opportunities to literally get their feet wet while making various observations and measurements in field exercises to evaluate physical and ecological stream characteristics assess stream stability.

Fulfills the following degree requirement(s): ENVS - Science Tech elective, CENG - Tech Elective

Equivalent(s): ENVS 425

Prerequisite(s): CENG 352

CENG 427 Infrastructure Design **credit(s): 3**

Design and construction supervision of the infrastructure required for land development. Topics include roadway geometry, water supply pipelines, sewer pipelines, and storm water drainage. Students will prepare design drawings, project plans, project reports, project specifications, and construction cost estimates that address regulatory requirements.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 318 and CENG 352 and CENG 391

CENG 440 GU-in-Delft: Sustainable Cities **credit(s): 4**

Covers the design of urban areas to promote sustainable development including the structural, transportation, energy, water, and food production systems. Use of comparative case studies to explore historical and regional differences in cities and their impacts on the environment and resource consumption.

Fulfills the following degree requirement(s): CENG - Tech Elective

CENG 444 Air Pollution **credit(s): 3**

An introduction to the field of air pollution and its control. Topics include regulations, air pollution sources, health effects, meteorology, and the theory and design of control techniques.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 303

CENG 450 Watershed Modeling **credit(s): 3**

Basic principles of hydrologic modeling are presented and practices. Key topics covered include watershed delineation, land use change impact on runoff, flooding impact, bridge/culvert hydraulics, and GIS data analysis. Students will gain an understanding and be able to apply the USACE software tools: HEC-HMS and HEC-RAS. Design projects will focus on applying these models to design stormwater management facilities and size bridges and culverts to minimize flooding impacts.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 352

CENG 454 Biological Treatment Processes **credit(s): 3**

The theory and design of biological processes for water and wastewater treatment. Topics include basic microbiology, activated sludge, membrane bioreactors, bioremediation, as well as biological treatment systems for water reuse, small on-site treatment systems, and air pollution.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 303

CENG 464 Ground Behavior for Structures **credit(s): 3**

This course is an advanced soil mechanics class, and presents ground considerations related to supporting civil engineering structures and facilities of various types. Treatment of in-place testing of the ground, obtaining the necessary information, and estimating soil behavior in the context of soil-structure interaction is included. Numerous applied examples of structural facilities are used throughout to further relate theory to practice.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 331

CENG 473 Foundation Design

credit(s): 3

General principles behind foundation design. Shallow and deep foundation design: spread footings and pile foundation. Retaining structures: sheet-pile walls, bulkheads and cofferdams.

Fulfills the following degree requirement(s): CENG - Tech Elective

Prerequisite(s): CENG 301 and CENG 331

CENG 480 Construction Management

credit(s): 3

This course covers topics such as project management, scheduling, cost estimating, and other relevant topics to the construction industry. Various aspects of construction engineering and equipment productivity and operation are included.

Fulfills the following degree requirement(s): CENG - Tech Elective, Construction Mgmt - Tech Elec

Prerequisite(s): CENG 331

Computer Science and Computer Science & Computational Thinking

Chairperson: Gina Sprint

Professors: S. Bowers, P. De Palma, H. Chizari, K. Yerion (Emerita), Y. Zhang

Associate Professors: D. Hughes (Emeritus), G. Sprint

Assistant Professors: A. Crandall, L. Johnson, D. Olivares, Y. Wang

Lecturers: B. Fischer

The Department of Computer Science offers two degrees and three concentrations and minors:

- Bachelor of Science in Computer Science
 - Data Science concentration
 - Software Application Development concentration
 - Software Security concentration
- Bachelor of Arts in Computer Science and Computational Thinking
 - Art concentration
 - Biology concentration
 - Communication Studies concentration
 - Economic concentration
 - English concentration
 - Environmental Studies concentration
 - Philosophy concentration
 - Sociology concentration
 - Theatre Arts concentration
 - Data Science concentration
 - Software Application Development concentration
 - Software Security concentration
- Minors in Computer Science for non-Computer Science department majors
 - Data Science
 - Software Application Development
 - Software Security

The Bachelor of Science in Computer Science (BSCS) is intended for students whose primary interest is the development and exploration of computer software. It is a technical degree requiring considerable mathematics and science. The Bachelor of Arts in Computer Science and Computational Thinking (BACSCT) serves those students with an interest in computing who would also like to study broadly in the humanities, the social sciences, or the natural sciences. It is a liberal arts-focused degree requiring coursework in one of nine approved disciplines.

The concentrations and minors with the same name have identical requirements. The concentrations allow students pursuing the BSCS or BACSCT degrees to specialize. The minors allow students pursuing other degrees to study computer science.

Faculty expertise and research interests span a wide range of computer science topics, including networks, machine learning, artificial intelligence, human language processing, computer graphics, database systems, AR/VR, data science, software engineering, IoT and computer security. Select students can participate in research projects directly with a faculty mentor through independent study courses, a senior thesis, or as a member of a professor's research group. Students are encouraged to pursue summer research or industry-sponsored internships. Many Computer Science students secure summer research funding through the National Science Foundation's Research Experience for Undergraduates program. Others intern in the computer industry, some with companies that regularly work with the Department of Computer Science.

The Department of Computer Science, housed in the new Bollier Center for Integrated Science and Engineering, runs multiple labs and servers:

- Windows and Linux labs for general computing
- A student projects lab
- A dedicated cybersecurity lab
- A faculty/student collaborative research lab
- A high-performance server for data-intensive research
- Multiple general-purpose Linux servers available for student and faculty work

The department sponsors several student organizations, including the Women in Computing club, chapters of Upsilon Pi Epsilon, an honor society, and the Association for Computing Machinery (ACM), a professional association of computer scientists. Computer Science students also participate in programming contests and hackathon events. Many Computer Science students are also active in the GU Robotics club.

Computer Science majors can graduate with departmental honors if they have fulfilled all computer science degree requirements (either BSCS or BACSCT), achieved a grade point average of at least 3.50 in their computer science courses, and written a senior thesis under the supervision of a Computer Science faculty member while successfully completing CPSC 495 and 496.

Computer Science

Chairperson: Gina Sprint

The B.S. in Computer Science (BSCS) is built on a broad and rigorous foundation of science, mathematics, software engineering, and advanced computer science topics. All students participate in a large software engineering project during their senior years. Each project is completed under the guidance of a faculty advisor and a project sponsor. Advisors are frequently practicing software developers. Project sponsors are often from the computer industry. BS students can also pursue optional concentrations in Data Science, Software Application Development, or Software Security.

The Bachelor of Science in Computer Science degree program is accredited by the Computing Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria.

B.S. in Computer Science: 128 credits (89 credits in computer science, mathematics, and science)

I. Computer Science Requirements: 37 credits

Lower Division

CPSC 121 Computer Science I	3 credits
CPSC 122 Computer Science II	3 credits
CPSC 223 Algorithms and Abstract Data Structures	3 credits
CPSC 224 Software Development	3 credits
CPSC 260 Computer Organization	3 credits

Upper Division

CPSC 321 Database Management Systems	3 credits
CPSC 326 Organization of Programming Languages	3 credits
CPSC 346 Operating Systems	3 credits
CPSC 348 Computer Security	3 credits
One of the following two courses:	3 credits
CPSC 351 Theory of Computation	
CPSC 450 Design and Analysis in Computer Algorithms	
CPSC 491 Software Engineering	2 credits
CPSC 491L Senior Design Project Lab I	1 credit

CPSC 492L Senior Design Project Lab II	3 credits
CPSC 499 Computers and Society	1 credit
II. Computer Science Technical Electives: 21 credits	
Any 200, 300, or 400 level CPSC course excluding CPSC 497. At most 2 courses from CPSC 2xx, 435, and 436.	21 credits
III. Mathematics Requirements: 17 credits	
MATH 157 Calculus-Analytic Geometry I	4 credits
MATH 231 Discrete Structures	3 credits
MATH 258 Calculus-Analytic Geometry II	4 credits
Two courses from the following are required:	6 credits
MATH 259 Calculus Analytic Geometry III	
MATH 260 Ordinary Differential Equation	
ENSC 371 Advanced Engineering Math	
CPSC 455 Chaos and Dynamical Systems	
any 300 or 400 level Mathematics course	
IV: Science and Mathematics Electives: 14 additional credits	
At least six of the elective science and mathematics credits must be chosen from BIOL, CHEM, or PHYS courses.	
BIOL 105/L Information Flow in Biological Systems and Lab	
BIOL 106 Energy Flow in Biological Systems	
BIOL 205/L Physiology & Biodiversity and Lab	
BIOL 206/L Ecology and Lab	
BIOL 207/L Genetics and Lab	
CHEM 101/L General Chemistry and Lab	
CHEM 205 Inorganic Chemistry	
CHEM 230/L Organic Chemistry I and Lab	
CHEM 231/L Organic Chemistry II and Lab	
CHEM 245/L Biochemistry and Lab	
CHEM 310/L Analytical Chemistry and Lab	
CPSC 455 Chaos and Dynamical Systems	
ENSC 371 Advanced Engineering Math	
PHYS 121/L Physics I and Lab	
PHYS 122/L Physics II and Lab	
PHYS 224 Modern Physics	
PHYS 325 Computational Physics	
PHYS 222 Electronics	
MATH 259 Calculus-Analytic Geometry III	

MATH 260 Ordinary Differential Equation
any 300 or 400 level Mathematics course

The Department of Computer Science offers three concentrations listed below:

- Software Security
- Data Science
- Software Application Development

These concentrations are for students majoring in either the BSCS or the BACSCT degrees. A student majoring in one of these programs may pursue any of the three concentrations listed as they are not eligible for a minor in these three areas. The concentration course requirements are identical regardless of the degree a student is seeking.

CS: Concentration in Software Security

CPSC 353 Cryptography 3 credits

One of the following three courses 3 credits

CPSC 341 Internet of Things

CPSC 447 Computer Networks

EENG 410 Information Theory and Coding

CS: Concentration in Data Science

CPSC 222 Introduction to Data Science 3 credits

CPSC 322 Data Science Algorithms 3 credits

One of the following three courses 3 credits

MATH 121 Introductory Statistics

MATH 221 Applied Statistics

MATH 321 Statistics for Experimentalist

Two of the following four courses 6 credits

CPSC 323 Machine Learning & Intelligent Systems

CPSC 324 Big Data Analytics

CPSC 325 Data Science Project Lab

CPSC 475 Speech & NLP

Software Application Development Concentration

CPSC 331 UI/UX Design 3 credits

CPSC 332 Web Development 3 credits

CPSC 333 Mobile App Development 3 credits

CPSC 334 Linux & DevOps 3 credits

Computer Science and Computational Thinking

Chairperson: Gina Sprint

The B.A. in Computer Science and Computational Thinking (BACSCT) serves those students with an interest in computing who would also like to study broadly in the humanities, the social sciences, or the natural sciences. For example, students interested in language and literature could explore questions that arise in computational linguistics or in computational approaches to the study of literature. Students interested in the social sciences could investigate sociological and economic questions through the increasing availability of large data repositories. Students interested in the life sciences could investigate the growing field of bioinformatics. The potential to combine computing with other disciplines makes the BACSCT an attractive option for students with diverse interests. In addition, the BACSCT degree provides background sufficient for entry level employment in many parts of the computer industry, as well as a base for further training in computer science.

The process of majoring in BACSCT begins by selecting a Discipline for Computational Thinking (DCT), chosen from Art, Biology, Communications Studies, Economics, English, Environmental Studies, Philosophy, Sociology, or Theatre Arts. Students choose at least twelve credits from their DCT. The foundation in computing is built upon twenty-five credits in mathematics and computer science. In consultation with their advisors, students also choose an additional eighteen credits in computer science courses. These could include courses relevant to the DCT. For instance, the Department of Computer Science offers courses in human language processing and big data analytics which could complement courses in English or Sociology.

BACSCT students can also pursue optional concentrations in Data Science, Software Application Development, or Software Security.

- **Cautionary Notes:**
Students may take no more than fifteen 200-level CPSC credits over the entire degree. Of these fifteen, no more than nine may be taken to satisfy the eighteen elective credits (See “II. Computer Science Electives,” below. Computer science courses are usually, but not always, three credits.
- Many upper division computer science courses require CPSC 260 as a prerequisite (see Courses offered by the Department of Computer Science for details).

B.A. in Computer Science and Computational Thinking: 55-59 credits

Lower Division

CPSC 121 Computer Science I	3 credits
CPSC 122 Computer Science II	3 credits
CPSC 223 Algorithm/Abstract Data Structures	3 credits
CPSC 224 Software Development	3 credits
One of the following two courses:	3-4 credits
MATH 148 Survey of Calculus	
MATH 157 Calculus and Analytic Geometry I	
MATH 231 Discrete Structures	3 credits

Upper Division

25 credits

Computer Science Electives*	18 credits
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* Any CPSC 200, 300, or 400-level course.

At most three elective courses (9 credits) may be taken at the 200-level.

9 of the 18 elective credits will be determined by the DCT Committee to best coincide with the chosen concentration.

Courses used to fulfill a computer science concentration may also fulfill these elective credits.

CPSC 491 Software Engineering	2 credits
CPSC 491L Senior Design Project Lab I	1 credit
CPSC 492L Senior Design Project Lab II	3 credits
CPSC 499 Computers and Society	1 credit
Required concentration requirements (DCT specific courses)	12-15 credits
Art	12 credits
Biology	14-15 credits
Communication Studies	12 credits
Economics	12 credits
English	12 credits
Environmental Studies	15 credits
Philosophy	12 credits
Sociology	12 credits
Theatre Arts	12 credits

Additional elective concentration options in Computer Science:

(Courses used to fulfill computer science concentration requirements may also fulfill the computer science elective requirements above)

Computer Science: Data Science	18 credits
Computer Science: Software Application Development	15 credits
Computer Science: Software Security	12 credits

***No more than five computer science courses in the entire degree are to be at the 200 level. Many upper division computer science courses require CPSC 260 as a prerequisite (see the list of course in the University Catalog for details).**

<i>Art Concentration:</i>	12-13 credits
VART 101 Drawing I	3 credits
One of the following two courses:	3 credits
VART 112 Design Fundamentals	
VART 230 3-D Design	
One of the following upper division Art History courses:	3 credits
VART 393 Modern Italian Art (taught in Florence)	
VART 394 Special Topics in Art History	
VART 395 Art in the 19th Century	
VART 396 Art in the 20th Century	
VART 397 Renaissance Art	
VART 398 Roman Art and Architecture	
VART 401 Renaissance Architecture	
VART 402 The Image of God	
VART 403/HIST 302 The Ancient City	
VART 404/HIST 307 Archaeology of Ancient Greece	
VART 405/HIST 308 Archaeology of Ancient Rome	
VART 406/HIST 366 American Culture and Ideas	
VART 407/WGST 350 Women Artists	
VART 408 History of Photography	
One of the following:	
(Note: Some of the courses below have a prerequisite. Check the undergraduate catalog.)	3 credits
VART 141 Ceramics I	
VART 201 Drawing II	
VART 221 Painting I	
VART 350 Beginning Printmaking	
VART 351 Beginning Screen Printing	

Biology Concentration: 14-15 credits

BIOL 105/BIOL 105L Information Flow in Biological Systems 4 credits

BIOL 106 Energy Flow in Biological Systems 3 credits

(Note: CHEM 101/101L is a prerequisite)

Choose one of the following four options:

(Note: Some of the courses below have a prerequisite. 8 credits

Check the undergraduate catalog.)

Option A: Choose two of the following three courses:

BIOL 205/BIOL 205L Physiology and Biodiversity

BIOL 206/BIOL 206L Ecology

BIOL 207/BIOL 207L Genetics

Option B:

BIOL 205/BIOL 205L Physiology and Biodiversity

BIOL 451/BIOL 451L Comparative Endocrinology (when offered)

Option C:

BIOL 206/BIOL 206L Ecology

One of the following six courses:

BIOL 303/BIOL 303L Population Ecology (when offered)

BIOL 305 Biological Data Analysis

BIOL 333 Community Ecology

BIOL 340/BIOL 340L Field Botany

BIOL 344/BIOL 344L GIS and Ecological Techniques

BIOL 360/BIOL 360L Plant Biology (when offered)

Option D:

BIOL 207/BIOL 207L Genetics

One of the following four courses:

BIOL 305 Biological Data Analysis

BIOL 335 Advanced Genetics

BIOL 337/BIOL 337L Developmental Biology (when offered)

BIOL 351/BIOL 351L Advanced Cell Biology (when offered)

(Note: CHEM 230 is a prerequisite)

Communication Studies Concentration: 12 credits

COMM 210 Understanding Meaning-making 3 credits

COMM 230 Understanding Identity 3 credits

COMM 370 Digital Culture/Networked Self 3 credits

Choose one of the following four courses: 3 credits

COMM 340 Encounters in Public Spheres

COMM 350 Politics of Social Memory

COMM 360 Media Aesthetics

COMM 450 Justice and Arts of Civic Life

Economics Concentration:	15 credits
ECON 201 Microeconomics	3 credits
ECON 202 Macroeconomics	3 credits
Choose one of the following two courses:	3 credits
ECON 355 Regression Analysis	
ECON 451 Econometrics*	
Choose one of the following two courses:	3 credits
ECON 303 Game Theory and Economic Applications	
ECON 351 Managerial Economics	
ECON elective - NOTE: ECON course have pre-requisites	3 credits
*ECON 351, ECON 355, ECON 451 pre-requisites: ECON 201 & ECON 202, (BUSN 230, or MATH 121, or MATH 321)	

English Concentration: 12 credits

Any combination of four 300- or 400-level English courses

Environmental Studies Concentration: 15 credits

ENVS 101 Introduction to Environmental Studies 3 credits

ENVS 103/ENVS 103L Environmental Biology and Lab 4 credits

ENVS 104/ENVS 104L Environmental Chemistry and Lab 4 credits

ENVS 200 Case Studies in Environmental Science 4 credits

Philosophy Concentration: 12 credits

Four 400-level Philosophy courses chosen by the DCT Committee.

Sociology Concentration: 12 credits

Any four Sociology courses at the 100-, 200, and 300-levels.

Theatre Arts Concentration: 13-14 credits

THEA 100 Introduction to Theatre Arts 3 credits

One of the following two courses: 3-4 credits

 THEA 132 Stagecraft

 THEA 332 Scenic Design

THEA 235 Design Process 3 credits

THEA 239 Lighting Design 3 credits

THEA 260 Technical Lab 1 credit

In addition to their required DCT concentration, BSCT students may choose from the following optional concentrations.

Computer Science: Software Security Optional Concentration:	12 credits
CPSC 260 Computer Organization	3 credits
CPSC 348 Computer Security	3 credits
CPSC 353 Cryptography	3 credits
<i>One of the following four courses</i>	3 credits
CPSC 341 Internet of Things	
CPSC 346 Operating Systems	
CPSC 447 Computer Networks	
EENG 410 Information Theory and Coding	

Computer Science: Data Science Optional Concentration:	18 credits
CPSC 222 Intro to Data Science	3 credits
CPSC 322 Data Science Algorithms	3 credits
<i>One of the following 3 courses:</i>	3 credits
MATH 121 Introductory Statistics	
MATH 221 Applied Statistics	
MATH 321 Statistics for Experimentalist	
CPSC 321 Database Management Systems	3 credits
<i>Two of the following four courses</i>	6 credits
CPSC 323 Machine Learning and Intelligent Systems	
CPSC 324 Big Data Analytics	
CPSC 325 Data Science Project Lab	
CPSC 475 Speech & NLP	

Computer Science: Software Application Development Optional Concentration	12 credits
CPSC 331 UI/UX Design	3 credits
CPSC 332 Web Development	3 credits
CPSC 333 Mobile App Development	3 credits
CPSC 334 Linux & DevOps	3 credits

Minors in Computer Science

The Department of Computer Science offers three minors :

- Software Security
- Data Science
- Software Application Development

The minors are for students not majoring in either the Bachelor of Science in Computer Science or in the Bachelor of Arts in Computer Science in Computational Thinking.

Minor in CS: Software Security (21 credits)

CPSC 121 Computer Science I	3 credits
CPSC 122 Computer Science II	3 credits
CPSC 223 Data Structures	3 credits
<i>One of the following two courses</i>	3 credits
CPSC 260 Computer Organization	
CPEN 231 & CPEN 231L Microcomputer Arch & Assm Prog	
CPSC 348 Computer Security	3 credits
CPSC 353 Cryptography	3 credits
<i>One of the following five courses</i>	3 credits
CPSC 341 Internet of Things	
CPSC 346 Operating Systems	
CPSC 349 Cybersecurity Project Lab	
CPSC 447 Computer Networks	
EENG 410 Information Theory and Coding	

Minor in CS: Data Science (21 credits)

CPSC 121 Computer Science I	3 credits
CPSC 222 Introduction to Data Science	3 credits
CPSC 322 Data Science Algorithms	3 credits
<i>One of the following three courses</i>	3 credits
MATH 121 Introductory Statistics	
MATH 221 Applied Statistics	
MATH 321 Statistics for Experimentalist	
CPSC 321 Database Management Systems	3 credits
<i>Two of the following four courses:</i>	6 credits
CPSC 323 Machine Learning & Intelligent Systems	
CPSC 324 Big Data Analytics	
CPSC 325 Data Science Project Lab	
CPSC 475 Speech & NLP	

Minor in CS: Software Application Development (21 credits)

CPSC 121 Computer Science I	3 credits
CPSC 122 Computer Science II	3 credits
CPSC 224 Software Development	3 credits
CPSC 331 UI/UX design	3 credits
CPSC 332 Web Development	3 credits
CPSC 333 Mobile App Development	3 credits
CPSC 334 Linux & DevOps	3 credits

Courses:

CPSC 110 Special Topics for Non Majors credit(s): 1-3

Course repeatable for 9 credit.

Computer Science topics of special interest to students majoring in other disciplines. Sample topics include principles of programming, web programming, and media computing. May not be counted towards a major in Computer Science. On sufficient demand.

Restriction(s):

Must not be in the following Major(s): Comp Sci & Computation Think, Computer Science

CPSC 121 Computer Science I credit(s): 3

Techniques of problem-solving and algorithmic development. An introduction to programming. Emphasis is on how to design, code, debug, and document programs using good programming style. Fall and Spring.

CPSC 122 Computer Science II credit(s): 3

A continuation of CPSC 121. An examination of dynamic memory management and recursion; an introduction to basic data structures and algorithmic analysis. Fall and Spring.

Prerequisite(s): CPSC 121

CPSC 190 Directed Study credit(s): 1-3

Topic to be decided by faculty.

CPSC 212 Computational Modeling credit(s): 3

This course introduces students to the modeling process and computer simulations. It considers two major approaches: system dynamics models and agent-based models. A variety of software tools will be explored. Applications will be chosen from ecology, medicine, chemistry, biology, and others. Spring.

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

Prerequisite(s): CPSC 121

CPSC 213 Special Topics credit(s): 3

Course repeatable for 12 credit.

Topic to be determined by instructor.

CPSC 214 Special Topics credit(s): 3

Course repeatable for 12 credit.

Topic to be determined by instructor.

CPSC 215 Special Topics credit(s): 3

CPSC 222 Introduction to Data Science credit(s): 3

This course provides an introduction to the underlying ideas, concepts, and techniques used in data science. Students gain skills in statistical and computational thinking, and their practical application to real-world, data-driven problem solving and decision making. The course teaches important concepts and skills in both statistical reasoning and computer programming for the purpose of analyzing real-world data sets. Examples are drawn from diverse areas such as economics, social science, health and wellness, climate science, and education. Students gain experience using the Python programming language, Python's standard libraries for data science applications and computational notebooks (e.g., using Jupyter). The course also raises

important social questions concerning privacy, social inequality, and professional ethics related to data science and its applications. Fall & Spring.

Restriction(s):

Must be the following Class(es): Freshman, Sophomore

Prerequisite(s): CPSC 121 or ENSC 201

CPSC 223 Algorithm and Abstract Data Struct **credit(s): 3**

Algorithm analysis using Big-O notation, sorting, heaps, balanced binary search trees, and hash tables. Fall and Spring.

Prerequisite(s): CPSC 122 and MATH 231 (or concurrent)

CPSC 224 Software Development **credit(s): 3**

This course covers topics in object-oriented programming, user-interface design and development, and software construction including program design, development tools, and basic concepts in software engineering. Students work on hands-on development assignments and projects throughout the semester. Fall and Spring.

Prerequisite(s): CPSC 122

CPSC 260 Computer Organization **credit(s): 3**

This course covers basic topics in the design of modern computer systems. Topics include digital logic, computer system components, machine-level code, memory organization and management, computer arithmetic, assembly-language programming, and basic connections between high-level and low-level languages (C and assembly). This course also serves as a foundation for courses on networking, security, operating systems, and computer architecture, where a deeper understanding of systems-level issues is required. Fall and Spring.

**** Students who have taken and received credit for CPEN 231 may not also receive credit for CPSC 260. *****

Prerequisite(s): CPSC 122

CPSC 290 Directed Reading **credit(s): 0-3**

Individual exploration of a topic not normally covered in the curriculum.

CPSC 310 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 122

CPSC 311 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 122

CPSC 312 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 122

CPSC 313 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 122

CPSC 314 Special Topics **credit(s): 3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 122

CPSC 315 Special Topics **credit(s): 1-3**

Course repeatable for 12 credit.

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 321 Database Management Systems **credit(s): 3**

Introduction to relational database concepts and techniques. Topics include the relational model, database design, SQL, transactions, file and index organization, and using databases within software applications, Fall.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Prerequisite(s): CPSC 122 or CPSC 222

CPSC 322 Data Science Algorithms **credit(s): 3**

This course provides a detailed overview of the processes and techniques used in creating data science applications. Emphasis is placed on popular algorithms for the analysis, classification, and mining of relational data. Students learn to implement data science algorithms and techniques over real-world data sets through assignments and projects in Python. Topics include data preparation and cleaning, summary statistics, basic data visualization techniques, feature selection, discretization, k nearest neighbors, naive bayes, decision trees, ensemble methods, apriori rule mining, and k-means clustering. Fall.

Prerequisite(s): CPSC 122 or CPSC 222

CPSC 323 Machine Learning and Intelligent Systems **credit(s): 3**

This course provides a detailed overview of topics in machine learning with an emphasis on algorithms and techniques for unstructured and complex data sets. Students implement and apply machine learning algorithms to examples drawn from time series, image, audio, textual, and numerical data. Topics include regression analysis, support vector machines, genetic algorithms, neural networks and heuristic search. Concepts and issues in building intelligent systems and the role of machine learning are also discussed. Fall.

Prerequisite(s): CPSC 322 or CPSC 223

CPSC 325 Data Science Project Lab **credit(s): 3**

This course provides an overview of how to design a data science system and deploy the system into a production environment. Students complete a semester-long project that involves researching a data science problem, proposing a solution to the problem, implementing the solution, and deploying the solution as a hosted web application. Emphasis is placed on working with web-based application programming interfaces, gathering and processing data, researching and implementing common machine algorithms for data mining and classification, and securely deploying models in the cloud. Spring, odd years.

Equivalent(s): CPSC 483

Prerequisite(s): CPSC 322 or CPSC 323

- CPSC 326 Organization of Program Languages** **credit(s): 3**
Examination of the structures and concepts of procedural, functional, and logic-based programming languages. Spring.
Prerequisite(s): CPSC 223
- CPSC 331 UI/UX Design** **credit(s): 3**
Exploration of theories and principles related to human-computer interaction, user experience design, and user interface design. Development of techniques and practices for designing and evaluating software usability. Spring.
Prerequisite(s): CPSC 122
- CPSC 332 Web Development** **credit(s): 3**
Techniques of web-based software application development. Introduces programming languages and frameworks for web programming. Emphasis on web programming basics using well-established approaches including the basics of full-stack web development. Fall.
Prerequisite(s): CPSC 122
- CPSC 333 Mobile App Development** **credit(s): 3**
This course provides an introduction to mobile application development. The primary aim of this course is to provide students with a thorough introduction to designing and building native and/or cross-platform apps for mobile devices. The platform, frameworks/libraries, and development tools used in this course vary and are dependent on the current demand in industry. Topics include object-oriented programming, design patterns, user interface design and implementation, data storage, working with application programming interfaces, threading, camera and photos, and location and maps. Additional topics are covered based on trending mobile app features. Fall.
Prerequisite(s): CPSC 122
- CPSC 334 Linux and DevOps** **credit(s): 3**
This course covers topics of using and managing Linux OSes from the command line, virtual machines, containers, DevOps philosophy, continuous integration, continuous deployment, and Git. Students work on hands-on development assignments and projects throughout the semester. Spring.
Prerequisite(s): CPSC 122
- CPSC 341 Internet of Things** **credit(s): 3**
The Internet of things (IoT) is the network of physical devices, buildings (smart building), furniture (smart home), vehicles (smart transportation), and many others. In this class, students will learn key technologies in IoT and obtain hands-on experience by building IoT devices. A substantial part of the material will cover IoT applications, IoT architecture, embedded systems, network protocols, sensor networks, and IoT security. Students will also work on research projects related to IoT applications, design, and security. Spring, odd years.
Prerequisite(s): CPSC 223
- CPSC 346 Operating Systems** **credit(s): 3**
Study of operating systems internals. Topics include concurrent programming, memory management, file system management, scheduling algorithms, and security. Fall.
Prerequisite(s): CPSC 122 and (CPSC 260(or CPEN 231 and CPEN 231L))

CPSC 348 Computer Security credit(s): 3

Study of security and information assurance in stand-alone and distributed computing. Topics include ethics, privacy, access control methods and intrusion detection. Spring.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Equivalent(s): CPSC 448

Prerequisite(s): CPSC 223 and (CPSC 260(or CPEN 231 and CPEN 231L)

CPSC 351 Theory of Computation credit(s): 3

Study of automata, languages, and computability theory. Regular grammars, finite state automata, context-free grammars, pushdown automata, Turing machines, decidable and undecidable problems, and problem reduction. Fall, odd years.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): CPSC 223 and (MATH 231 or MATH 301)

CPSC 353 Applied Cryptography credit(s): 3

Topics include classical cryptosystems, block ciphers, public key cryptosystems, key exchange protocols, and hash functions. Fall.

Prerequisite(s): CPSC 223 and (MATH 231 or MATH 301)

CPSC 390 Directed Study credit(s): 1-3

Topic to be decided by faculty.

CPSC 410 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 411 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 412 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 413 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 414 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

Prerequisite(s): CPSC 223

CPSC 415 Advanced Topics credit(s): 3

Topics that reflect the current interests and expertise of the faculty. On sufficient demand.

CPSC 425 Computer Graphics credit(s): 3

Introduction to the use of graphics primitives within a higher level language to produce two and three-dimensional images; underlying mathematical operations used to implement standard graphics packages; practical experience with current graphics systems. Spring, odd years.

Prerequisite(s): CPSC 223 and MATH 231

CPSC 431 Computer Hardware Design and Architecture **credit(s): 3**
Understanding the design techniques, machine structures, technology factors, and evaluation methods that will determine the form of computers in 21st century. Spring.

Prerequisite(s): CPSC 260 or CPEN 231

CPSC 435 Parallel and Cloud Computing **credit(s): 3**
Parallel Programming platforms; principles of parallel algorithm design; basic communication operations; programming using the message-passing paradigm (MPI); programming on shared address space platforms (POSIX Thread and OpenMP); cloud computing; big data analysis; and other advanced topics. On sufficient demand.

Equivalent(s): CPEN 435

Prerequisite(s): CPSC 260(or CPEN 231 and CPEN 231L)

CPSC 436 Biomedical Informatics and Computing **credit(s): 3**
Investigation of the role of computers in the provision of medical services; machine learning algorithms for regression, classification, clustering, and anomaly detection; medical decision-making support; genomic medicine and its techniques. On sufficient demand.

Equivalent(s): CPEN 436

Prerequisite(s): CPSC 260(or CPEN 231 and CPEN 231L)

CPSC 439 Digital Forensics **credit(s): 3**
Digital forensics covers the three functions of digital forensics performed by organizations: employee abuse investigations, incident response, and electronic discovery. Students will learn to conduct all three. In particular students will learn to gather, analyze and present digital evidence to the sponsoring organization as well as to legal audiences. On sufficient demand.

Prerequisite(s): CPSC 223 and (CPSC 260 or (CPEN 231 and CPEN 231L))

CPSC 447 Computer Networks **credit(s): 3**
Study of main components of computer communications and networks; communication protocols; routing algorithms; machine addressing and network services. Spring - even years.

Prerequisite(s): CPSC 223 and (CPSC 260 or (CPEN 231 and CPEN 231L))

CPSC 448 Network and System Security **credit(s): 3**
Computer Network and System Security covers cybersecurity in computer operating systems, network infrastructure, and devices like routers and switches, server management for Windows and Linux operating systems, along with managing sensitive data. On sufficient demand.

Prerequisite(s): CPSC 223 and (CPSC 260 or (CPEN 231 and CPEN 231L))

CPSC 450 Design and Analysis-Comp Algorithm **credit(s): 3**
Advanced study of computer algorithms not covered in CPSC 223 along with principles and techniques of computational complexity. Topics could include dynamic programming, B-trees, minimum spanning trees, Floyd and Warshall algorithms, various string matching algorithms, computational geometry, exponential growth of round-off errors, NP-completeness and reducibility. Fall - even years.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Restriction(s):

Must not be the following Class(es): Freshman

Prerequisite(s): CPSC 223 and MATH 231

CPSC 455 Chaos and Dynamical Systems **credit(s): 3**

Introduction to the study of discrete nonlinear dynamical systems and their chaotic behavior. The course will focus on investigations through computer experiments- both numerical and graphical- and the corresponding mathematical analysis of the observed behavior. A significant portion of the course will be devoted to designing graphics programs. In the humanistic tradition of Gonzaga, students will also learn the historical development of the modern science of chaotic dynamical systems. Spring - even years.

Prerequisite(s): CPSC 122 and (MATH 231 or MATH 301)

CPSC 475 Speech and Natural Language Processing **credit(s): 3**

Computational approaches to language processing: text normalization, N-grams, sentiment classification, part-of-speech tagging, parsing, semantic analysis, and applied phonetics. Spring, odd years.

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): CPSC 223 or CPSC 322

CPSC 481 Data Analytics and Communication **credit(s): 3**

In this course, students will learn a variety of techniques and tools for effectively communicating data analysis questions, results, and insights to a range of audiences. The course will cover techniques related to data storytelling, data visualization, interactive dashboarding, digital portfolio design and development, technical report writing, and technical presentation skills for data science. Students will also learn to effectively use modern tools related to data storytelling and visualization. On sufficient demand.

Prerequisite(s): CPSC 222

CPSC 482 Data Intensive Systems **credit(s): 3**

This course covers tools and techniques used in applying statistical and machine learning approaches to real-world data sets. Through hands-on assignments and projects, students learn relevant architectures, programming models, and tools related to data modeling and storage, extract-transform-load (ETL) processes, data warehousing, and data pipeline creation and management. The course also explores scalable, distributed, and cloud-based approaches used in data-intensive applications for accessing, filtering, clustering, and classifying data. On sufficient demand.

Prerequisite(s): (CPSC 223 or CPSC 322) and CPSC 321

CPSC 483 Data Science Capstone **credit(s): 3**

This course provides an overview of how to design a data science system and deploy the system into a production environment. Students complete a semester-long project that involves researching a data science problem, proposing a solution to the problem, implementing the solution, and deploying the solution as a hosted web application. Emphasis is placed on working with web-based application programming interfaces, gathering and processing data, researching and implementing common machine algorithms for data mining and classification, and securely deploying models in the cloud. On sufficient demand.

Equivalent(s): CPSC 325

Prerequisite(s): CPSC 322 or CPSC 323

CPSC 490 Directed Reading **credit(s): 1-3**
Individual exploration of a topic not normally covered in the curriculum. Arrangement with an instructor.

Restriction(s):

Must be the following Class(es): Senior

CPSC 491 Software Engineering **credit(s): 2**

A survey of approaches used in software engineering focusing on software development processes, requirements engineering, estimation, scheduling, risk analysis, testing, version control, and project management. Students apply the techniques and practices learned in their senior design projects, including the development of a detailed project plan and a functional software prototype. Fall.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must not be in the following Major(s): Must be in the following Major(s): Comp Sci & Computation Think, Computer Science

Must be the following Class(es): Senior

Corequisite(s): CPSC 491L, CPSC 499

Prerequisite(s): CPSC 223 and CPSC 224

CPSC 491L Senior Design Project Lab I **credit(s): 1**

First semester of a two semester senior design project in which students work in teams to develop a large software product. Teams meet weekly with their faculty project advisors. Fall.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): Comp Sci & Computation Think, Computer Science

Must be the following Class(es): Senior

Corequisite(s): CPSC 491, CPSC 499

Prerequisite(s): CPSC 223 and CPSC 224

CPSC 492L Senior Design Project Lab II **credit(s): 3**

Second semester of a two semester senior design project in which students work in teams to develop a large software product. Teams meet weekly with their faculty project advisors. Spring.

Restriction(s):

Must be in the following Major(s): Comp Sci & Computation Think, Computer Science

Must be the following Class(es): Senior

Prerequisite(s): CPSC 491 and CPSC 491L

CPSC 493 Software Security Engineering **credit(s): 3**

Secure Software Engineering covers the principles and practices of secure programming: writing programs in a safe fashion, avoiding vulnerabilities which can be exploited by attackers, and using library security features like authentication and encryption. On sufficient demand.

Restriction(s):

Must not be in the following Major(s):

Must be the following Class(es): Senior

Prerequisite(s): CPSC 223 and CPSC 224

CPSC 495 Thesis I **credit(s): 1**
First of a two semester senior thesis project. Requires arrangement with a faculty supervisor.

Restriction(s):

Must be in the following Major(s): Computer Science

Must be the following Class(es): Senior

CPSC 496 Thesis II **credit(s): 1**

Second of a two semester senior thesis project. Requires arrangement with a faculty supervisor.

Restriction(s):

Must be in the following Major(s): Computer Science

Must be the following Class(es): Senior

Prerequisite(s): CPSC 495

CPSC 497 Computer Science Internship **credit(s): 0-3**

Course repeatable for 3 credit.

Computer Industry Internship.

Restriction(s):

Must be the following Class(es): Senior

CPSC 499 Computers and Society **credit(s): 1**

This course discusses ethical, societal, security and legal issues in computing, including their relationship to professional development. Topics are examined within the context of students' senior design projects. Fall.

Restriction(s):

Must be in the following Major(s): Comp Sci & Computation Think, Computer Science

Must be the following Class(es): Senior

Corequisite(s): CPSC 491, CPSC 491L

Prerequisite(s): CPSC 223 and CPSC 224

Electrical Engineering and Computer Engineering

Chairperson: Yanqing Ji

Professors: G. Allwine (Emeritus), R. Birgenheier (Emeritus), G. Braileanu (Emeritus), Y. Ji, V.A. Labay, S. Schennum (Emeritus), C. Talarico, C. Tavora (Emeritus)

Associate Professor: J. Tadrous, M. Zhang

Lecturer: R. Cox

The purpose of the electrical engineering (EE) and computer engineering (CpE) programs is to develop knowledgeable and competent engineering professionals who exemplify the humanistic, Catholic, and Jesuit tradition of education, and who are committed to social justice, service to others, life-long learning, ethical and moral responsibility, and concern for the environment. The integration of the Gonzaga University core curriculum as an essential part of the EE and CpE curricula gives the programs their distinct and desirable characteristics.

Roughly half of the credits in either the EE or the CpE program are devoted to engineering topics and design. While the EE program offers five technical electives, the CpE program provides four technical electives, allowing students to pursue specialization in one or more areas of electrical engineering and/or computer engineering. During their final year, students complete a design project, which involves both technical and non-technical aspects of an engineering problem, under faculty supervision. The senior design project culminates in a comprehensive written report and an oral presentation.

Career Opportunities

Graduates of our EE and CpE programs are well prepared to embark on careers in electrical engineering or computer engineering, or to further their education at graduate schools of their choice. Our graduates find employment with a broad segment of industry, as well as with governmental agencies. Employment opportunities include the design of electronic products, design of electrical systems, development of computer, hardware, software/firmware, robots, artificial intelligence (AI), computer applications, research and development, engineering consulting, electrical utilities, manufacturing, marketing, operations and maintenance, administration, and teaching. Moreover, electrical and computer engineers traditionally engage in interdisciplinary fields, such as aerospace engineering, national defense systems, global communication systems, biomedical engineering, instrumentation, transportation systems, energy conversion, robotics, and industrial automation. Many of our graduates have distinguished themselves at some of the best graduate schools in the USA. Moreover, a substantial number of our graduates have achieved high positions in academia, business, and government.

Electrical Engineering

Electrical engineering is the profession that applies mathematics, the basic sciences, technology, and problem-solving skills to the design, construction, operation, and maintenance of electrical and electronic products, equipment, services, and information systems. Electrical engineers find innovative ways to use electricity, information, computers, and electronics to make people's lives better. Traditionally, electrical engineering involves the areas of communication systems, computer systems, control systems, electric power systems, electronics, very large scale integration (VLSI)/microchips, and signal processing.

Communication systems process and transfer information from one point to another. This information includes audio and video data, as well as digital data used in computers. Computer systems includes computer design, as well as the areas of hardware and software used to control processes and equipment. Control systems use electronic circuits to regulate processes to meet specific objectives and requirements. Electric power systems generate, transmit, and distribute electricity to residential, commercial, and industrial establishments. Electronics engineers design and develop devices, components, and circuits that are used in computers, appliances, automobiles, and countless other areas. VLSI/microchips refer to the process of integrating millions of transistors onto a single chip to create complex electronic circuits or systems. Signal processing systems transform electrical and electromagnetic signals to more usable form in such applications as computerized tomography (CT) scan and magnetic resonance imaging (MRI).

The department of Electrical and Computer Engineering, in conjunction with its various constituencies, has clearly defined program objectives. These engineering program objectives are listed in the School of Engineering and Applied Science section of this catalog.

The Bachelor of Science in Electrical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

B.S. in Electrical Engineering: 130 credits

First Year

Fall

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
DEPT 193 First-Year Seminar	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
PHIL 101 Reasoning	3 credits
COMM 100 Communication and Speech	3 credits

Spring

ENGL 101 Writing	3 credits
CPSC 121 Computer Science I	3 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
CPEN 230 Introduction to Digital Logic	3 credits
CPEN 230L Introduction to Digital Logic Lab	1 credit
PHIL 201 Human Nature	3 credits

Second Year

Fall

CPEN 231 Embedded Computer Systems	3 credits
CPEN 231L Embedded Computer Systems Lab	1 credit
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab	1 credit
EENG 201 Circuit Analysis I	3 credits
EENG 201L Circuit Analysis I Lab	1 credit
Core Broadening Requirement	3 credits

Spring

EENG 202 Circuit Analysis II	3 credits
MATH 259 Calculus and Analytical Geometry	4 credits
PHYS 122 Physics II	4 credits
PHYS 122L Physics II Lab	1 credit
Religion Requirement: Christianity and Catholic Traditions	3 credits

Third Year

Fall

EENG 301 Electromagnetic Fields and Materials	3 credits
EENG 303 Electronics Design I	3 credits
EENG 303L Electronics Design I Lab	1 credit
EENG 311 Signals and Systems I	4 credits
MATH 260 Ordinary Differential Equations	3 credits
Ethics core requirement	3 credits

Spring

EENG 304 Electronics Design II	3 credits
EENG 304L Electronics Design II Lab	1 credit
EENG 322 Signals and Systems II	3 credits
EENG 340 Introduction to Electric Power Engineering	3 credits
EENG 340L Introduction to Electric Power Engineering Lab	1 credit
Religion Requirement: World or Comparative Religion	3 credits
Core Integration Seminar (432)	3 credits

Fourth Year

Fall

EENG 411 Introduction to Control Systems	3 credits
EENG 411L Introduction to Control Systems Lab	1 credit
EENG 421 Introduction to Communication Systems	3 credits
EENG 421L Intro Communications Systems Lab	1 credit
ENSC 491 Senior Design Project I	2 credits
Technical elective ¹	3 credits
Technical elective ¹	3 credits

Spring

ENSC 492 Senior Design Project II	3 credits
ENSC 400 Fundamentals of Engineering Examination	0 credits
Technical elective ¹	3 credits
Technical elective ¹	3 credits
Technical elective ¹	3 credits
Core Broadening Requirement: (History, Literature, Social and Behavioral Science)	3 credits

Note¹: Approved EENG or CPEN elective courses

Technical Electives in Electrical Engineering

Only 300 and 400 level courses that are not required in the degree plan can be used to satisfy the technical elective requirements. The student's advisor must approve the selection and must contain courses from at least two of the following specializations: 1. Electromagnetics, Circuits, Electronics and Filters, 2. Control Systems and Automation, 3. Communication Systems and Signal Processing, 4. Electric Power and Power Systems Engineering, and 5. Computer Engineering. Please see your advisor for current course offerings.

Electrical Engineering

- EENG 401 Low Power Bioelectronics
- EENG 402 Electromagnetic Waves and Materials
- EENG 403 Passive and Active Filter Design
- EENG 406 VLSI Circuits and Systems
- EENG 412 Digital Control Systems
- EENG 424 Digital Signal Processing
- EENG 427 Wireless Systems
- EENG 428 Wireless Systems II
- EENG 441 Analysis of Power Systems
- EENG 442 Electric Power Distribution System Engineering
- EENG 443 Analysis of Electrical Machines

Computer Engineering

- CPEN 431 Computer Hardware Design and Architecture
- CPEN 435 Parallel and Cloud Computing
- CPEN 436 Machine Learning in Biomedicine
- CPEN 342/CPEN 342L Embedded Computer Systems/Lab
- CPEN 430/CPEN 430L Digital System Design/Lab
- CPEN 442 Introduction to Robotics
- CPEN 443 Autonomous Mobile Robots

Engineering Science

ENSC 355 Thermal Science

ECE: Concentration in Robotics

CPEN 442 Introduction to Robotics	3 credits
CPEN 443 Autonomous Mobile Robotics	3 credits
Two of the following four courses	6 credits
CPEN 436 Machine Learning in Biomedicine	
EENG 411 Control Systems	
EENG 412 Digital Control	
EENG 424 Digital Signal Processing	

Courses:

EENG 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

EENG 201 Circuit Analysis I credit(s): 3

Fundamental electrical laws; network theorems. Basic circuit elements: resistance, inductance, capacitance, independent and controlled sources, and op-amps. Techniques of circuit analysis; steady-state and transient responses; first-order and second-order circuits; complex numbers; sinusoidal analysis. Three lectures hours per week.

Corequisite(s): EENG 201L

Prerequisite(s): MATH 258 (or concurrent)

EENG 201L Circuit Analysis I Lab credit(s): 1

Three laboratory hours per week. Taken concurrently with EENG 201.

Corequisite(s): EENG 201

EENG 202 Circuit Analysis II credit(s): 3

Continuation of EENG 201. Sinusoidal steady-state analysis; RMS value; real, reactive, and complex powers; balanced three-phase circuits; second-order circuits; frequency response; Bode plots; resonance; complex frequency; transfer functions; two-port circuits; magnetically coupled circuits; transformers.

Prerequisite(s): EENG 201

EENG 301 Electro Fields and Materials credit(s): 4

Application of vector calculus to static and time-varying electric and magnetic fields; electromagnetic properties of conductors, insulators, dielectrics, and ferromagnetic materials;

Maxwell's equations; electromagnetic waves; transmission lines. Four lecture hours per week. EENG 202 is a co-requisite or pre-requisite for this course.

Prerequisite(s): EENG 201 and PHYS 122 and MATH 259

EENG 303 Electronics Design I **credit(s): 3**

Introduction to electronics design concepts; semiconductor devices and their associated electrical behavior; amplifier modeling, design, and trade-offs; practical designing, building, testing, and analyzing of electronic circuits. Three lecture hours per week. EENG 202 is a co-requisite or pre-requisite for this course.

Prerequisite(s): EENG 201

EENG 303L Electronics Design I Lab **credit(s): 1**

Three laboratory hours per week. Taken concurrently with EENG 303.

Corequisite(s): EENG 303

EENG 304 Electronics Design II **credit(s): 3**

Continuation of EENG 303. Frequency response and distortion; tuned circuits; operational amplifiers; power amplifiers; feedback concepts and oscillators; digital circuits; astable circuits; data conversion; practical design and application of electronic circuits. Three lecture hours per week.

Corequisite(s): EENG 304L

Prerequisite(s): EENG 303 (or concurrent)EENG303L (or concurrent)

EENG 304L Electronics Design II Lab **credit(s): 1**

Three laboratory hours per week. Taken concurrently with EENG 304.

Corequisite(s): EENG 304

EENG 311 Signals and Systems I **credit(s): 4**

Signals and systems; types of signals; properties of systems; convolution integral; Fourier series; Fourier transform and applications; Laplace transform and applications; Sampling Theorem. Four lecture hours per week.

Prerequisite(s): EENG 201 and MATH 260 (or concurrent)

EENG 322 Signals and Systems II **credit(s): 3**

Introduction to probability; random variables; multiple random variables; elements of statistics; applications in electrical and computer engineering. Three lecture hours per week.

Prerequisite(s): EENG 311 and MATH 258

EENG 340 Introduction Electric Power Engineering **credit(s): 3**

Magnetic circuits; principles of electromechanical energy conversion; transformers; synchronous machines; three-phase induction machines; D.C. machines; transmission lines; power system modeling; power flow analysis. Three lecture hours per week.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Corequisite(s): EENG 340L

Prerequisite(s): EENG 201 and EENG 202 (or concurrent)

EENG 340L Introduction Electric Power Engineering Lab **credit(s): 1**

Three hours of laboratory per week. Taken concurrently with EENG 340.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Corequisite(s): EENG 340

EENG 401 Lower Power Bioelectronics credit(s): 3

Physics and technology of semiconductor devices; Carrier transport phenomena; p-n junctions; Metal semiconductor junctions; Device operation based on junction physics; Process technologies; Some simulations using modern software. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Equivalent(s): CPEN 401

Prerequisite(s): CPEN 230 and EENG 303

EENG 402 Electromagnetic Waves and Materials credit(s): 3

Continuation of EENG 301. Time varying fields; electromagnetic waves and transmission lines; metallic waveguides and resonators; principles of photonics; antennas. Three lectures hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 301

EENG 403 Passive and Active Filter Design credit(s): 3

Properties of network functions; properties and realizations of LC and RC driving point functions; passive realizations of transfer functions; Butterworth, Chebyshev, and Bessel filter approximations; design techniques for low-pass, high-pass, band-pass, and band-elimination filters. Basic building blocks for active filters; direct and cascade realization approaches. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Prerequisite(s): EENG 311

EENG 406 VLSI Circuits and Systems credit(s): 3

Structural design of digital integrated circuits in MOS technology; layout, design rules, fabrication techniques; use of computer automated design and simulation tools, and high-level description language. Three lecture hours per week. EENG 304 is a co-requisite or pre-requisite for this course.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Equivalent(s): CPEN 406

Prerequisite(s): CPEN 230 and EENG 303

EENG 410 Information Theory and Coding credit(s): 3

Discussion of the concepts of information transmission theory including entropy, redundancy, the noisy channel model and channel capacity. Basics of source coding including compression limits and Huffman codes. Linear block code discussion involving Hamming distance, error detection/correction capabilities, generator/parity-check matrices, syndromes and error correction. Well-known block codes such as Hamming codes and the Golay code. Basics of finite field algebra and BCH codes including Reed-Solomon codes. Convolutional codes and the Viterbi decoding algorithm. Concatenated codes and the NASA Deep Space Network telemetry system. Fall.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

EENG 411 Introduction to Control Systems credit(s): 3

Analysis and design of linear closed-loop systems; stability; design based on root locus and root contours. A package of computer programs is used for homework and design problems. Three lectures hours per week.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Prerequisite(s): EENG 201

EENG 411L Introduction to Control Systems Lab credit(s): 1

Experimental investigation of concepts and subsystems used in controls. Three laboratory hours per week. Co-requisites: EENG 411

Corequisite(s): EENG 411

EENG 412 Digital Control Systems credit(s): 3

Classical and modern control system analysis and design techniques. Sampling; stability; frequency response; root locus; state variables in discrete time; controllability; observability; state variable feedback; pole placement and observers. A package of computer programs is used for homework and a design project. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective, MENG - Tech Elective

Prerequisite(s): EENG 411 or MENG 411

EENG 421 Introduction Communication Systems credit(s): 3

Basic concepts in communication systems: correlation and power spectral density; pulse modulation; amplitude modulation; angle modulation; effects of noise. Three lecture hours per week.

Fulfills the following degree requirement(s): CPEN - Tech Elective

Prerequisite(s): EENG 311

EENG 421L Introduction to Communication Systems Lab credit(s): 1

Experimental investigation of concepts and subsystems used in electronic communications.

Taken concurrently with EENG 421.

Corequisite(s): EENG 421

EENG 424 Digital Signal Processing credit(s): 3

Discrete Fourier Transform and circular convolution; Fast Fourier Transform; use of windows in spectral estimation; filter approximations; design and realization of IIR and FIR digital filters; effects of finite word size; sampling rate conversion. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Prerequisite(s): EENG 311

EENG 427 Wireless Systems credit(s): 3

Fundamentals of RF stages of modern wireless systems including antennas, propagation, fading, noise, receiver design, modulation methods and bit error rates. Components of wireless systems, including filters, amplifiers, mixers, oscillators, and phase-locked loops. Initial coverage includes transmission lines, S-parameters, impedance matching, and random processes. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 202

EENG 428 Wireless Systems II credit(s): 3

Advanced topics in modern RF/microwave wireless component design including microstrip transmission lines, filters and amplifiers. Mixer, oscillator and phase-locked loop basics. Digital

modulation methods and bit error rates. Introduction to information capacity. Receiver design. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 427

EENG 441 Analysis of Power Systems credit(s): 3

Per unit system; transmission line parameters; power system models; generators, transformers, lines, loads; power flow problem and solution methods; symmetrical components; symmetrical and unsymmetrical fault analysis; use of computer software package to solve power-flow and short-circuit problems. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 340

EENG 442 Electric Power Distribution System Engineering credit(s): 3

Distribution system planning; load characteristics; distribution transformer applications; design of sub-transmission lines, substations, primary and secondary distribution systems; voltage regulation; capacitor applications; protection. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 340

EENG 443 Analysis of Electrical Machines credit(s): 3

D.C. machine dynamics; D.C. motor starters and controllers; synchronous machine steady-state and transient performance; polyphase induction machine dynamics; A.C. motor starters and controllers; transformer applications; fractional horsepower A.C. motors; power electronics. Three lecture hours per week.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): EENG 340

EENG 481 Special Topics Electrical Engineering credit(s): 1-3

Course repeatable for 9 credit.

Courses of special interest may be offered from time to time. Prerequisites will depend on the nature of the material offered and will be announced.

Computer Engineering

Computer Engineering (CpE) combines the disciplines of electrical engineering and computer science. It encompasses computer hardware, software, and systems. The study of computer engineering is not limited to general purpose computers, but also covers embedded computer systems that control a vast multitude of devices and functions from automotive ignitions to cellular phones and various industrial controls, medical instruments, robotics, consumer electronics. Computer hardware design involves logic design, digital electronics, computer architecture, and integrated circuit design. Computer software involves the design of programs in various languages using structured and object-oriented techniques to control devices and systems. Computer systems involve the combination of hardware, software and operating system that will provide the most effective realization of a system.

Computer engineers are continually developing newer and faster computers, and they find new applications for computers every day to fill the needs of society. The computer engineer must have a broad understanding not only of computer systems, but also of basic engineering fundamentals to apply computer technology to the solution of real engineering problems.

The courses and laboratories offered in the CpE program are organized into the three disciplines of hardware, software, and system design. Technical electives that are chosen from various fields of specialization (e.g., robotics, networking, machine learning, high-performance computing, communications, computers, controls, and electronics) enable CpE seniors to apply their computer engineering knowledge in selected areas in their professional career.

The department of Electrical and Computer Engineering, in conjunction with its various constituencies, has clearly defined program objectives. These engineering program objectives are listed in the School of Engineering and Applied Science section of this catalog.

The Bachelor of Science in Computer Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

B.S. in Computer Engineering: 130 credits

First Year

Fall

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
DEPT 193 First Year Seminar	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
PHIL 101 Reasoning	3 credits
COMM 100 Communication and Speech	3 credits

Spring

CPSC 121 Computer Science I	3 credits
ENGL 101 Writing	3 credits
MATH 258 Calculus and Analytical Geometry II	4 credits
CPEN 230 Introduction to Digital Logic	3 credits
CPEN 230L Introduction to Digital Logic Lab	1 credit
PHIL 201 Human Nature	3 credits

Second Year

Fall

CPEN 231 Embedded Computer Systems	3 credits
CPEN 231L Embedded Computer Systems Lab	1 credit
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab	1 credit
EENG 201 Circuit Analysis Lab	3 credits
EENG 201L Circuit Analysis I Lab	1 credit
MATH 231 Discrete Structures	3 credits

Spring

CPSC 122 Computer Science II	3 credits
CPEN 247 Network Interfacing and Sockets	3 credits
EENG 202 Circuit Analysis II	3 credits
MATH 259 Calculus and Analytical Geometry III	4 credits
Religion Requirement: Christianity and Catholic Traditions	3 credits

Third Year

Fall

CPSC 223 Abstract Data Structures	3 credits
EENG 303 Electronics Design I	3 credits
EENG 303L Electronics Design I Lab	1 credit
EENG 311 Signals and Systems	4 credits
MATH 260 Ordinary Differential Equations	3 credits
Ethics core requirement	3 credits

Spring

CPEN 342 Cyber-Physical Systems	3 credits
CPEN 342L Cyber-Physical Systems Lab	1 credit
EENG 304 Electronics Design II	3 credits
EENG 304L Electronics Design II Lab	1 credits
EENG 322 Signals and Systems	3 credits
Religion Requirement: World or Comparative Religion	3 credits
Core Broadening Requirement	3 credits

Fourth Year

Fall

CPEN 430 Digital System Design	3 credits
CPEN 430L Digital System Design Lab	1 credit
CPEN 442 Introduction to Robotics	3 credits
CPEN/CPSC Technical elective	3 credits
ENSC 491 Senior Design Project I	2 credits
Technical elective ¹	3 credits

Spring

ENSC 492 Senior Design Project II	3 credits
ENSC 400 Fundamentals of Engineering Examination	0 credits
CPEN/CPSC Technical elective ¹	3 credits
Technical elective ¹	3 credits
Core Broadening Requirement: (History, Literature, Social and Behavioral Science)	3 credits
Core Integration Seminar (432)	3 credits

Note¹: Approved EENG, CPEN or CPSC elective courses

Technical Electives in Computer Engineering

Only 300 and 400 level courses that are not required in the degree plan can be used to satisfy the technical elective requirements. Approved electrical and computer engineering and computer science courses with an EENG, CPEN or CPSC designation may be used as electives. The student's advisor must approve the selection. However, a maximum number of two approved computer science courses with a CPSC course designation may be used to satisfy computer engineering technical elective degree requirements. Please see your advisor for current course offerings.

Computer Engineering and Computer Science

- CPEN 431 Computer Hardware Design and Architecture
- CPEN 435 Parallel and Cloud Computing
- CPEN 436 Machine Learning in Biomedicine
- CPSC 435 Parallel and Cloud Computing
- CPSC 436 Machine Learning in Biomedicine
- CPEN 443 Autonomous Mobile Robots
- CPSC 321 Database Management Systems
- CPSC 346 Operating Systems
- CPSC 348 Computer Security
- CPSC 450 Advanced Algorithms

Electrical Engineering

- EENG 340/EENG 340L Introduction to Electric Power Engineering
- EENG 401 Electronics III
- EENG 403 Passive and Active Filter Design
- EENG 406 VLSI Circuits and Systems
- EENG 411 Introduction to Control Systems
- EENG 412 Digital Control Systems
- EENG 413/EENG 413L Automation
- EENG 421 Introduction to Communication Systems
- EENG 422 Digital Communication Systems
- EENG 424 Digital Signal Processing

The Department of Electrical and Computer Engineering offers a Concentration in Robotics:

This concentration is for students majoring in either the BSEE or the BSCpE degrees. A student majoring in one of these programs may pursue the concentration as they are not eligible for a minor in this area. The concentration course requirements are identical regardless of the degree a student is seeking.

ECE: Concentration in Robotics

CPEN 442 Introduction to Robotics	3 credits
CPEN 443 Autonomous Mobile Robotics	3 credits
Two of the following four courses	6 credits
CPEN 436 Machine Learning in Biomedicine	
EENG 411 Control Systems	
EENG 412 Digital Control	
EENG 424 Digital Signal Processing	

Courses:

CPEN 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

CPEN 230 Introduction Digital Logic credit(s): 3

Number systems and codes, Boolean Algebra, Logic gates and flip-flops. Verilog HDL. Combinational and sequential Logic Design using CPLDs. Three lecture hours per week.

Corequisite(s): CPEN 230L

CPEN 230L Introduction Digital Logic Lab credit(s): 1

Three laboratory hours per week. Taken concurrently with CPEN 230.

Corequisite(s): CPEN 230

CPEN 231 Embedded Computer Systems credit(s): 3

Study of components of simple computer systems: CPU's memory, registers, busses, computer control, microprogramming, assembly language programming. Three lecture hours per week.

Corequisite(s): CPEN 231L

Prerequisite(s): CPSC 121, or ENSC 201, or equivalent programming course

CPEN 231L Embedded Computer Systems Lab **credit(s): 1**
 Three laboratory hours per week. Taken concurrently with CPEN 231.
Corequisite(s): CPEN 231

CPEN 247 Network Interfacing and Sockets **credit(s): 3**
 Reviewing main programming concepts. Introducing network models, services and applications. Processes Communications. UDP and TCP Client/Server Sockets. Offered during Spring semesters.
Prerequisite(s): CPSC 121

CPEN 342 Cyber-Physical Systems **credit(s): 3**
 The microcontroller as an engineering component. Hardware expansion with analog and digital devices. Board-level design of real-time systems. Design of user-friendly interactive displays. Design project. Troubleshooting with logic analyzers and in-circuit emulation. Three lecture hours per week.
Fulfills the following degree requirement(s): EENG - Tech Elective
Prerequisite(s): CPEN 231 and EENG 201 and EENG 201L

CPEN 342L Cyber-Physical Systems Lab **credit(s): 1**
 Three laboratory hours per week. Taken concurrently with CPEN 342.
Fulfills the following degree requirement(s): EENG - Tech Elective
Corequisite(s): CPEN 342

CPEN 430 Digital System Design **credit(s): 3**
 Modern methods of digital design realization. Technology independence. Designs utilizing gate arrays and custom integrated circuits. Use of high-level design software. Extensive use of Verilog hardware design language for system description, simulation, and implementation. Three lecture hours per week.
Fulfills the following degree requirement(s): EENG - Tech Elective
Corequisite(s): CPEN 430L
Prerequisite(s): CPEN 231 or CPSC 260

CPEN 430L Digital System Design Lab **credit(s): 1**
 Three laboratory hours per week. Taken concurrently with CPEN 430.
Fulfills the following degree requirement(s): EENG - Tech Elective
Corequisite(s): CPEN 430

CPEN 431 Computer Hardware Design and Architecture **credit(s): 3**
 Understanding the design techniques, machine structures, technology factors, evaluation methods that will determine the form of computers in 21st century. Three lecture hours per week.
Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective
Prerequisite(s): CPEN 231 or CPSC 260

CPEN 435 Parallel and Cloud Computing credit(s): 3

Parallel Programming platforms; principles of parallel algorithm design; basic communication operations; programming using the message-passing paradigm (MPI); programming on shared address space platforms (POSIX Thread and OpenMP); cloud computing; big data analysis; and other advanced topics. On sufficient demand.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Equivalent(s): CPSC 435

Prerequisite(s): CPEN 231 or CPSC 260

CPEN 436 Machine Learning in Biomed credit(s): 3

Investigation of the role of computers in the provision of medical services; machine learning algorithms for regression, classification, clustering, and anomaly detection; medical decision-making support; genomic medicine and its techniques. On sufficient demand.

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Equivalent(s): CPSC 436

Prerequisite(s): CPSC 121

CPEN 442 Introduction to Robotics credit(s): 3

Principles of real-time systems and robotics. Thread management and inter-thread communications. Semaphores and thread synchronization. Design and simulation of simple robotic systems. Cooperation, blocking semaphores, FIFO queues, and deadlocks. Thread sleeping and scheduling. File system management, solid-state drives (SSDs), Controller Area Network (CAN). Robotic control systems and fuzzy logic.

Fulfills the following degree requirement(s): EENG - Tech Elective

Prerequisite(s): CPEN 231 or CPSC 260

CPEN 443 Autonomous Mobile Robots credit(s): 3

Introducing the principles of robotic sensor integration, mobility, real-time systems, line tracking, data acquisition systems, cognition: object detection and tracking, robotic wireless control, tachometers, and odometry. This course will be offered every spring semester

Fulfills the following degree requirement(s): EENG - Tech Elective, CPEN - Tech Elective

Prerequisite(s): CPEN 231 or CPSC 260

CPEN 481 Special Topics credit(s): 1-3

Course repeatable for 9 credit.

Courses of special interest may be offered from time to time. Prerequisites will depend on the nature of the material offered and will be announced.

Engineering Management

Chairperson: Gary R. Weber

Lecturer: B. Colburn

Affiliated Faculty: M. Capobianchi, P. McKenny (Emertius), P. Nowak, D. Olivares, J. Tadrous

The Engineering Management Program was developed to address a growing need for individuals that possess both engineering and management skills. Courses taken in the Engineering Management Program are intended to provide students with a broad understanding of the practice and concepts of engineering, and make them adaptive leaders who are ready to address challenges caused by rapid changes in technology. The program provides graduates an opportunity to select from a wide range of career paths.

The Engineering Management program attracts students whose talents and interests are not confined to a traditional engineering design and analysis position, as well as those drawn to the entrepreneurial aspects of engineering. The program is especially well suited to the typical engineering student attracted to Gonzaga University since it makes use of engineering and leadership skills they develop at GU, with their interest in helping others and making a valuable contribution to society. By combining a strong engineering background with a Minor in Business for Engineering Technologies from the School of Business Administration, students develop a skill-set that is sought after by employers.

Gonzaga's Engineering Management program provides students with a foundation in the critical skills required to be successful in their chosen career. The program contains a set of core engineering courses that provide a solid basis in engineering principles, augmented by relevant courses on the process of management as it applies to technically-based projects. Students also develop a technical concentration by taking a set of "pathway" courses from the other School of Engineering and Applied Science disciplines - Civil, Computer, Electrical, and Mechanical Engineering, or Computer Science. Each pathway draws from a wide selection of interests within engineering, allowing students to customize their degree. A pathway is represented by an endpoint – a 4XX-level engineering course or a 3XX- or 4XX level computer science course – plus the pre-requisite courses required to reach the endpoint. Engineering Management students must complete at least three pathway endpoints with a total of at least twenty credits of pathway courses.

The Engineering Management Department, in conjunction with its various constituencies, has clearly defined program objectives. These engineering program objectives are listed in the School of Engineering and Applied Science section of this catalog, and by the Gonzaga University Mission Statement that may be found at the beginning of the catalog.

The Bachelor of Science in Engineering Management degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program

Criteria and the Engineering Management and Similarly Named Engineering Programs Program Criteria.

B.S. in Engineering Management: 130+ credits

Contact Department Chair or your advisor for specific details.

First Year

Fall

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
DEPT 193 First Year Seminar	3 credits
MATH 157 Calculus and Analytical Geometry I	4 credits
COMM 100 Communication and Speech	3 credits
PHIL 101 Reasoning	3 credits

Spring

MATH 258 Calculus and Analytical Geometry II	4 credits
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab	1 credit
PHIL 201 Human Nature	3 credits
ENGL 101 Writing	3 credits
RELI Core: Christianity and Catholic Religions	3 credits

Second Year

Fall

ECON 200 Economic Analysis (1st broadening course)	3 credits
ENSC 205 Statics	3 credits
PHYS 122 Physics II	4 credits
PHYS 122L Physics II Lab	1 credit
MATH 259 Calculus and Analytic Geometry III	4 credits
MENG 221 Materials Engineering	3 credits

Spring	
ENSC 301 Mechanics of Materials	3 credits
MATH 260 Ordinary Differential Equations	3 credits
MATH 321 Statistics for Experiment	3 credits
RELI Core: World/Comparative Religion	3 credits
Ethics Core Requirement	3 credits
Third Year	
Fall	
Pathways Course #1	3 credits
Approved Computing Course	3 credits
EENG 201 Circuit Analysis I	3 credits
EENG 201L Circuit Analysis I Lab	1 credit
ENGM 310 System Engineering Management	3 credits
ACCT 263 Accounting Analysis	3 credits
Spring	
Pathways Course #2	3 credits
Pathways Course #3	3 credits
ENSC 244 Computer Methods for Engineers	3 credits
ENSC 355 Thermal Science (odd years)	3 credits
Business for Engineering Technologies Elective (even years)	3 credits
BFIN 320 Principles of Finance	3 credits
BUSN 283 Business Law	3 credits
	3 credits
Fourth Year	
Fall	
Pathways Course #4	3 credits
Pathways Course #5	3 credits
ENSC 491 Senior Design Project I	2 credits
ENGM 405 Engineering Project Management	3 credits
Core: History or Literature (2nd broadening course)	3 credits

Spring	
Pathways Course #6	3 credits
Pathways Course #7 (if necessary)	3 credits
ENSC 492 Senior Design Project II	3 credits
ENSC 400* Fundamentals of Engineering Examination	0 credits
ENSC 355 Thermal Science (odd years)	3 credits
Business for Engineering Technologies Elective (even years)	
DEPT 432 Core Integration Seminar	3 credits
<i>* Students must show proof of having taken the examination in the State of Washington, as part of the requirements of this course.</i>	
Pathways Courses	
Pathways represent an upper division course endpoint plus any required lower-level course prerequisites. The technical courses used to satisfy the pathways requirements must meet the following requirements:	
<ul style="list-style-type: none"> • Three pathway endpoint courses selected from (Engineering 4XX courses) or (CPSC 3XX or 4XX courses) • Each endpoint course must at a minimum be a 3-credit course • The total credit count of all pathways courses must add up to a minimum of 20 credits 	
Required Minor for Business for Engineering Technologies	
Required Courses (15 credits)	0 credits
ECON 200 Economic Analysis (Core Broadening Requirement)	3 credits
ACCT 263 Accounting Analysis	3 credits
BUSN 283 Business Law	3 credits
MATH 321 Statistics for Experimentalists	3 credits
BFIN 320 Principles of Finance	3 credits
Elective Courses (select two, 6 credits)	
ENGM 405 Engineering Project Management	3 credits
ECON 324 Economic of Environmental Protection	3 credits
MGMT 350 Principles of Management	3 credits
MKTG 310 Principles of Marketing	3 credits
OPER 340 Operations Management	3 credits
BENT 490 Creativity, Innovation, and Entrepreneurship	3 credits

Courses:

ENGM 310 Systems Engineering Management credit(s): 3

This course provides a broad overview of issues encountered in managing engineering activities: effective organization, leadership and control of technology; managing technology through product life cycles and application of lean principles; legal aspects of technology development and engineering professionalism. The course includes case studies and a team project.

Restriction(s):

Must be in the following Major(s): Engineering Management

Must be the following Class(es): Junior, Senior

ENGM 405 Engineering Project Management credit(s): 3

Current tools used to manage engineering and technical projects. Topics covering both theory and practice: Definition of a project; Management and organization; Project planning, including chartering, project scope management, project time (schedule) management, project cost management, quality management, communications, project risk management, and procurement/contract management; Project control; and Project completion/termination.

Equivalent(s): ENSC 405

Prerequisite(s): ENSC 300 or BFIN 320

ENGM 460 Sustainable Product Development credit(s): 3

This course focuses on the life cycles of products from needs analysis through conceptual design, production, and end-of-life. Life Cycle Analysis is applied to assess the sustainability of mock products. Classroom experiences are supplemented by visits to Irish industries that are incorporating sustainable practices.

Restriction(s):

Must be the following Class(es): Junior, Senior

Engineering Science

The following Engineering Science courses are service courses for all majors within the School of Engineering and Applied Science:

Courses:

ENSC 100 Engineering Seminar credit(s): 0

A course to introduce freshman engineering students to the engineering curriculum and the engineering profession. A broad introduction to the study and practice of engineering, professional development, academic success strategies, and orientation to the engineering education system. One class meeting per week. Fall

ENSC 193 FYS: credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

Restriction(s):

Must not be in the following College/School(s): School of Engineering and Applied Science

ENSC 201 Programming for Engineers credit(s): 3

This course introduces the use of Python programming as an applied tool to solve engineering problems across many fields including data analysis, visualization, and computation. Skills developed in the problem-solving process improve procedural thinking, design of solutions, and debugging. Use of projects throughout the course to support engaged learning.

ENSC 205 Statics credit(s): 3

A vector treatment of systems of forces and moments in equilibrium. Topics include centroids, distributed loads, effects of friction; analysis of trusses and frames and calculations of moments of inertia. PHYS 103 is a co-requisite or pre-requisite for this course.

Prerequisite(s): PHYS 121 (or concurrent)

ENSC 244 Computer Methods for Engineers credit(s): 3

Course developing facility in the solution of engineering problems by numerical methods using digital computers. A practical treatment of the computational tools for solving linear and non-linear algebraic equations, and ordinary differential equations. Techniques of numerical differentiation, integration, regression analysis, and interpolation. Use of mathematics computer software.

Prerequisite(s): MATH 260 (or concurrent)

ENSC 290 Directed Study credit(s): 1-3

Course repeatable for 12 credit.

Topic to be decided by faculty.

ENSC 300 Engineering Economics **credit(s): 2**

Techniques of evaluating engineering decisions in the economic realm. Selected topics include: annual cost, present worth, future worth, rate of return, and benefit cost ratio analysis in engineering project alternatives.

Prerequisite(s): MATH 258FL

ENSC 301 Mechanics of Materials I **credit(s): 3**

Behavior of materials, elementary theories of stress and strain, generalization of these theories to stress distribution, and deformation and instability in structural members.

Prerequisite(s): ENSC 205

ENSC 306 Dynamics **credit(s): 3**

A vector treatment of kinematics and kinetics. General motion of a particle, energy and momentum methods for particles and rigid bodies.

Prerequisite(s): ENSC 205

ENSC 352 Fluid Mechanics **credit(s): 3**

Fluid properties, fluid statics, fluids in motion, momentum and energy equations, dimensional analysis, boundary layers, flow in conduits, drag and lift.

Prerequisite(s): ENSC 205

ENSC 355 Thermal Science **credit(s): 3**

First and second law of thermodynamics applied to closed and open systems; introduction to conduction, convection, and radiation heat transfer. For non-mechanical engineering majors only.

Restriction(s):

Must not be in the following Major(s): Mechanical Engineering

ENSC 371 Advanced Engineering Math **credit(s): 3**

Application of advanced mathematical techniques to problems of interest to engineers and scientists. Analytical methods involving topics such as ordinary and partial differential equations, special functions, and complex valued functions.

Prerequisite(s): MATH 260

ENSC 400 Fund of Engineering Exam **credit(s): 0**

Proctoring of the practice examination for Students in preparation for the Fundamental of Engineering Exam (1st exam toward professional licensing), and of the School of Engineering and Applied Sciences assessment surveys (dates and times are announced during the semester). Also requires Students to take the Washington State Fundamentals of Engineering (FE) Examination. Students must show proof of having taken the examination as part of the requirements of this course.

Prerequisite(s): ENSC 491 or CPSC 491

ENSC 405 Engineering Project Management **credit(s): 3**

Current tools used to manage engineering and technical projects. Topics covering both theory and practice: Definition of a project; Management and organization; Project planning, including chartering, project scope management, project time (schedule) management, project

cost management, quality management, communications, project risk management, and procurement/contract management; Project control; and Project completion/termination.

Equivalent(s): ENGM 405

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 413 Automation **credit(s): 2**

Use of programmable controllers to automate manufacturing processes and equipment. Ladder logic and state based control languages. Controller architecture and system software. Structured design using Grafcet. Interactive graphic operator interface design. Safety considerations. Sensors and instrumentation. Single Loop Controllers

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): ENSC 244(and EENG 411 or MENG 461)

ENSC 0 Automation Lab **credit(s): 1**

Must be taken concurrently with ENSC 413. Three hour lab per week.

ENSC 432 CIS: **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): CIS PREQ

ENSC 481 Special Topics in Engineering **credit(s): 1-6**

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Fulfills the following degree requirement(s): MENG - Tech Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 482 Special Topics **credit(s): 1-6**

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

ENSC 483 Independent Study in Engineer **credit(s): 1-3**

Course repeatable for 12 credit.

Admission is based on evidence of ability to pursue independent study in depth and approval of a submitted project in engineering science. Prerequisite: permission of Department Chair and Dean. Fall and Spring.

Fulfills the following degree requirement(s): MENG - Tech Elective

ENSC 484 Independent Study in Engineer credit(s): 1-3

Course repeatable for 9 credit.

Admission is based on evidence of ability to pursue independent study in depth and approval of a submitted project in engineering science. Prerequisite: permission of Department Chair and Dean. Fall and Spring.

ENSC 485 Special Topics in Engineering credit(s): 1-6

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Fulfills the following degree requirement(s): MENG - Tech Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 486 Special Topics in Engineering credit(s): 1-6

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Fulfills the following degree requirement(s): MENG - Tech Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 487 Special Topics in Engineering credit(s): 1-6

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 488 Special Topics in Engineering credit(s): 1-6

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 489 Special Topics in Engineering credit(s): 1-6

Course repeatable for 12 credit.

Special topics in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that special topic course. Fall and Spring.

Restriction(s):

Must be the following Class(es): Junior, Senior

ENSC 490 Directed Study credit(s): 0-3

Course repeatable for 6 credit.

Directed study of a specific topic in engineering. Admission is based on satisfying any specified pre-requisite, co-requisite and/or restrictions particular to that topic in this course. Fall and Spring.

ENSC 491 Senior Design Project I **credit(s): 2**

Elective senior design project of an interdisciplinary or specialized nature involving both technical and non-technical aspects of an engineering problem for students in any of the engineering majors. Fall.

Fulfills the following degree requirement(s): Core: Fine Arts and Design

Restriction(s):

Must be the following Class(es): Senior

ENSC 492 Senior Design Project II **credit(s): 3**

Ongoing completion of an elective senior design project of an interdisciplinary or specialized nature involving both technical and non-technical aspects of an engineering problem for students in any of the engineering majors. Spring.

Fulfills the following degree requirement(s): Core: Fine Arts and Design, Core: Writing Enriched

Restriction(s):

Must be the following Class(es): Senior

Corequisite(s): ENSC 400

Prerequisite(s): ENSC 491

ENSC 497 Internship **credit(s): 0-6**

Course repeatable 8 time.

Work experience directly related to the student's major area of study. Internship requires completion of an application form, a 3.00 GPA and permission from department. Zagweb registration is not available. Fall, Spring and Summer.

Restriction(s):

Must be in the following College/School(s): School of Engineering and Applied Science

Mechanical Engineering

Chairperson: Marc Baumgardner

Professors: K. Ansari (Emeritus), M. Capobianchi, T. Chen, P. Ferro (Emeritus), G. Hordemann (Emeritus)

Associate Professors: M. Baumgardner, T. Fitzgerald, J. Marciniak (Emeritus)

Assistant Professors: H. Khare, A. Lutfullaeva, B. Sargent, G. Weber

Senior Lecturer: J. Weston

Lecturers: D. McDonald, A. Toghraee, J. Weston, B. Colburn

Mechanical Engineering is that branch of engineering that encompasses the study of forces, motion, energy, materials, manufacturing, and design in order to apply them to the creation of mechanical devices and systems that serve society (e.g., engines, refrigerators, machines, tools, etc.). This is accomplished through a process of problem description, creative idea generation, design, analysis, judgment, planning, and production that typically involves a host of professionals who may all have been educated as mechanical engineers. For example, mechanical engineers may be involved in product design, analysis, and testing, in developing manufacturing processes, in defining product requirements and trouble-shooting customer problems, in project management, and in research and education.

The profession serves many diverse fields and industries such as the aerospace, pharmaceutical, automotive, biomedical engineering, and power generation industries, to name just a few. In fact, any device or system that involves energy or movement probably involved one or more mechanical engineers in its creation. Some exciting, rapidly developing fields and emerging technologies of interest to mechanical engineers include fuel cells (the use of chemical fuel and an oxidant to directly produce electricity), rapid prototyping (the use of computer-controlled machines to fabricate complete objects in one step directly from computer models), mechatronics (the integration of mechanical systems and electronic sensing and control), biomedical engineering (the application of engineering to problems in medicine and biology), nanoengineering (the creation of materials and devices at the nanometer level, i.e., at the atomic, molecular, or supramolecular levels), and MEMS (Microelectromechanical Systems-the integration of mechanical, chemical, and/or electronic systems at the chip level).

The Department of Mechanical Engineering at Gonzaga University develops men and women who are both competent engineers and educated, responsible human beings. The development of these two characteristics in students is affected by course work from both the liberal arts and the profession. Thus, these two aspects are interwoven, being a single, integrated fabric having many threads contributed by many curricula. This synthesis is expressed by the engineering program educational objectives that are listed in the School of Engineering and Applied Science section of this catalog, and by the Gonzaga University Mission Statement that may be found at the beginning of the catalog.

Diversity of opportunity and professional breadth are hallmarks of the mechanical engineering profession. This translates into a need for a thorough grounding in a variety of mathematical, scientific, and engineering fundamentals. Thus, the Mechanical Engineering Program at Gonzaga University prepares the student in the areas of mathematics, chemistry, physics, mechanics, thermodynamics, fluid mechanics, heat transfer, materials, manufacturing, design, control theory, experimentation, and economics. These fundamentals are enhanced with exposure to important engineering tools such as: mathematical techniques; computer programming; computer applications including computer aided design (CAD), computer aided manufacturing (CAM), finite element analysis (FEA), and computational fluid dynamics (CFD); and the use of equipment, instruments, and software typically found in manufacturing and laboratory situations. Since teamwork is an essential aspect of the modern practice of mechanical engineering, the Mechanical Engineering Program gives considerable attention to building personal communication skills through team design projects, reports, and presentations. Furthermore, as a critical component of the program, all students engage in design courses beginning in their Freshman year, culminating in a two-semester capstone design experience in the Senior year. That experience typically entails requiring student design teams, led jointly by faculty and practicing engineers, to solve real industrial design problems. Finally, the degree requirements also include the opportunity for breadth as well as concentration in particular engineering applications through a group of technical electives taken in the senior year (the list of allowed technical electives is given below). The department also has a five-year plan available for students wishing to proceed at a slower pace or for those planning to add a minor in business or in a liberal arts subject such as physics, music, or art. Information and a suggested course package is also available for students planning to enroll in the Gonzaga-in-Florence Engineering Semester program.

The following curriculum details the course requirements for each semester. In addition to these courses, all students must take the Fundamentals of Engineering Examination prior to graduation (see ENSC 400, “Fundamentals of Engineering Exam” course in the Spring semester of the Senior year). Finally, students who follow a curriculum sequence other than that listed below should meet with their Academic Advisors at their first opportunity in order to resolve any scheduling conflicts that may arise due to off-schedule course availability and/or course pre- and co-requisite structure. In all cases, students must comply with the pre- and co-requisite requirements in order to be granted admission into courses.

The Bachelor of Science in Mechanical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the General Program Criteria and the Mechanical and Similarly Named Engineering Programs Program Criteria.

B.S. in Mechanical Engineering: 140 credits

First Year

Fall

CHEM 101 General Chemistry I	3 credits
CHEM 101L General Chemistry I Lab	1 credit
DEPT 193 First Year Seminar	3 credits
MATH 157 Calculus - Analytical Geometry I	4 credits
COMM 100 Communication and Speech	3 credits
PHIL 101 Reasoning	3 credits

Spring

MATH 258 Calculus - Analytical Geometry II	4 credits
PHYS 121 Physics I	4 credits
PHYS 121L Physics I Lab	1 credit
MENG 291 Introduction to Mechanical Engineering Design	2 credits
MENG 291L Introduction to Mechanical Engineering Design Lab	1 credit
ENGL 101 Writing	3 credits
PHIL 201 Human Nature	3 credits

Second Year

Fall

ENSC 205 Statics	3 credits
MENG 221 Materials Engineering	3 credits
MATH 259 Calculus - Analytical Geometry III	4 credits
PHYS 122 Physics II	4 credits
PHYS 122L Physics II Lab	1 credit
ENSC 201 Programming for Engineers	3 credits

Spring

ENSC 244 Computer Methods for Engineers	3 credits
ENSC 306 Dynamics	3 credits
MATH 260 Ordinary Differential Equations	3 credits
MATH 321 Statistics for Experimentalists	3 credits
Ethics core requirement	3 credits
RELI XXX World or Comparative Religion	3 credits

Third Year

Fall

MENG 321 Thermodynamics I	3 credits
ENSC 301 Mechanics of Materials I	3 credits
ENSC 371 Advanced Engineering Math	3 credits
ENSC 352 Fluid Mechanics	3 credits
1st Core Broadening Requirement (History, Literature, Social and Behavior Science)	3 credits
RELI XXX Christianity and Catholic Traditions	3 credits

Spring

EENG 201 Circuit Analysis I	3 credits
EENG 201L Circuit Analysis I Lab	1 credit
ENSC 300 ⁽¹⁾ Engineering Economics	2 credits
MENG 322 Thermodynamics II	3 credits
MENG 330 Machine Design	3 credits
MENG 341 Heat Transfer	3 credits
MENG 301 Manufacturing Processes	2 credits
MENG 301L Manufacturing Processes Lab	1 credit

Fourth Year

Fall

ENSC 491 Senior Design Project I	2 credits
MENG 411 Instrumentation Systems	3 credits
MENG 411L Instrumentation Systems Lab	1 credit
MENG 434 Vibration Engineering	3 credits
MENG 461 System Dynamics and Control	3 credits
- - - - - Technical Elective	3 credits
2nd Core Broadening Requirement: (History, Literature, Social and Behavioral Sci)	3 credits

Spring	
ENSC 400 ⁽²⁾ Fundamentals of Engineering Examination	0 credits
ENSC 492 Senior Design Project II	3 credits
MENG 412 Mechanical Measurements	2 credits
MENG 412L Mechanical Measurements Lab	1 credit
- - - - Technical Elective	3 credits
- - - - Technical Elective	3 credits
Core Integration Seminar	3 credits

⁽⁴⁾ ENSC 300 is waived under the following circumstances:

- **Students enrolled in the Hogan Entrepreneurial Leadership program:** ENSC 300 is waived.

Students pursuing the General Business or Analytical Finance minor: ENSC 300 is waived after completing both (ECON 200 or (ECON 201 and ECON 202)) and BFIN 320
- **Students Pursuing the B.S. in Engineering and M.B.A. program:** ENSC 300 is waived after completing both (ECON 200 or (ECON 201 and Econ 202)) and BFIN 320.

The above courses are not intended to be options for the ENSC 300 course. Hence, students who are not in one of the above programs are required to take ENSC 300. Also, students who comply with one of the above criteria must complete all of the courses required to waive ENSC 300 prior to enrolling in any course for which ENSC 300 is a pre-requisite.

⁽²⁾As part of the requirements of this course, students must show proof of having taken the Fundamentals of Engineering Exam, as administered by the NCEES (<https://ncees.org/exams/fe-exam/>).

Technical Electives

The courses used to satisfy the technical elective requirements must normally be selected from the following list. However, students may take other courses for technical elective credits but only with the prior approval of both the student's academic advisor and the chair of the Department of Mechanical Engineering. The actual technical elective courses offered from the list below varies from year to year and the department may on occasion offer one or more pre-approved technical elective courses that are not listed below. Courses other than MENG courses may have pre and/or co- requisites that are outside of the normal mechanical engineering curriculum. Students wishing to take these courses should plan well in advance in order to comply with all admission requirements prior to enrolling in the course.

- CENG 301 Structural Analysis I
- CENG 422 Structural Analysis II
- EENG 412 Digital Control Systems
- ENSC 481 Design for Human Body
- ENSC 485 Compliant Mechanisms
- ENSC 488 Advanced Fluid Dynamics
- MENG 435 Applications in Vibrations
- MENG 442 Advanced Heat Transfer
- MENG 443 Combustion
- MENG 445 Heating, Ventilating, and Air Conditioning
- MENG 446 Energy Auditing
- MENG 447 Advanced Energy Systems
- MENG 451 Computational Dynamics
- MENG 456 Design for Manufacturing
- MENG 465 Introduction to Finite Elements
- MENG 467 Designing with Polymers and Composites
- MENG 468 Biomaterials & Biomechanical Engineering
- MENG 477 Material Selection for Design
- MENG 478 Vehicle Dynamics
- MENG 479 Tribology
- PHYS 452 Optics
- PHYS 456 Biophysical Systems & Modeling
- PHYS 323 Statistical Mechanics

Courses:

MENG 193 First Year Seminar credit(s): 3

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: First Year Seminar

MENG 221 Materials Engineering credit(s): 3

Introduction to the structure-property-processing relationship in metallic, ceramic, and polymeric materials, and to the atomic structure of materials and its influence on mechanical, electrical, and thermal properties. Students explore how alloying and thermomechanical processing modifies structure and changes the properties of materials.

Prerequisite(s): CHEM 101 or TRAN GCHM, minimum grade: T

MENG 291 Introduction to Mechanical Engineering Design credit(s): 2

Introduction to mechanical engineering design, with emphasis on the creation and communication of design ideas. Students will learn construction geometry, visualization (orthographic views, isometric views, sectional views, etc.), hand sketching and drawing of initial designs, and how to create 2-D drawings. Detailed treatment of dimensioning and tolerancing. Strong focus on the design of basic machine elements in order to prepare the student for further coursework in machine design, and senior projects, as well as direct application in the practice of mechanical engineering. The design process, including, product specifications, product descriptions, and prototype fabrication will be introduced. To register for this course, each student is required to have a laptop that meets or exceeds the specifications of the School of Engineering and Applied Science (SEAS). Specifications are available on the SEAS web site.

Fulfills the following degree requirement(s): MENG - Tech Elective

Corequisite(s): MENG 291L

MENG 291L Introduction to Mechanical Engineering Design Lab credit(s): 1

Hands on use of SOLIDWORKS CAD system to create 3-D models and 2-D drawings of machinery elements and assemblies. Laboratory assignments are coordinated with lecture content from MENG 291. Student projects will focus on the creation of machinery elements and assemblies in a team environment.

Corequisite(s): MENG 291

MENG 301 Manufacturing Processes credit(s): 2

Overview of manufacturing processes and how they influence design decisions. Emphasizes design for manufacturability, process comparison, and process specification.

Restriction(s):

Must be the following Class(es): Junior, Post-Bacc, Senior

Corequisite(s): MENG 301L

Prerequisite(s): MENG 221

MENG 301L Manufacturing Processes Lab **credit(s): 1**
 Laboratory experiences with machine tools and manufacturing processes. Calculations and problem solving that reinforce lecture topics.
Restriction(s):
 Must be the following Class(es): Junior, Post-Bacc, Senior
Corequisite(s): MENG 301

MENG 321 Thermodynamics I **credit(s): 3**
 The first and second laws of thermodynamics; thermophysical properties of matter, ideal gases and their mixtures; concept of entropy as applied to thermal systems.
Prerequisite(s): MATH 259

MENG 322 Thermodynamics II **credit(s): 3**
 Second Law analysis, power and refrigeration cycles, mixtures, combustion, and high speed flow. Applications of first and second law analysis to engineering systems.
Prerequisite(s): MENG 321

MENG 330 Machine Design **credit(s): 3**
 Application of stress analysis and theories of failure to basic machine elements. Design of elements under static and fatigue loading. Design involving mechanical elements such as shafts, gears, springs, bearings, and fasteners.
Prerequisite(s): ENSC 301

MENG 341 Heat Transfer **credit(s): 3**
 One and multidimensional steady conduction, transient conduction, internal and external forced convection, natural convection, radiation heat transfer, boiling and condensation, heat exchangers.
Prerequisite(s): MENG 321 and ENSC 352 and MATH 260

MENG 411 Instrumentation Systems **credit(s): 3**
 Basic concepts of measurement and analysis of measurement uncertainties and experimental data. Study of transducers and investigation of data acquisition, signal conditioning, and data processing hardware typically utilized in performing mechanical measurements.
Corequisite(s): MENG 411L
Prerequisite(s): EENG 201 and ENSC 371 and MATH 321

MENG 411L Instrumentation Systems Lab **credit(s): 1**
 Laboratory exercises supporting the topics covered in MENG 411.
Corequisite(s): MENG 411

MENG 412 Mechanical Measurements **credit(s): 2**
 Study of the techniques used for measuring displacement, velocity, acceleration, force, pressure, flow, temperature, and strain. Investigation of the proper application and the associated limitations of the techniques and of the required instruments. The topics are studied within the context of obtaining experimental solutions to engineering problems in thermodynamics, heat transfer, fluid mechanics, mechanics, and strength of materials.
Corequisite(s): MENG 412L
Prerequisite(s): MENG 411 and MENG 341

MENG 412L Mechanical Measurements Lab **credit(s): 1**
 Laboratory exercises supporting the topics covered in MENG 412.
Corequisite(s): MENG 412

MENG 434 Vibration Engineering credit(s): 3

Elements of vibrating systems. Free, forced harmonic and transient vibrations of single-degree-of-freedom systems with and without damping. Vibration isolation and control. Two-degree-of-freedom systems. Application of matrix techniques.

Prerequisite(s): ENSC 306 and ENSC 371

MENG 435 Applications in Vibrations credit(s): 3

Continuation of MENG 434. Practical applications of vibration theory to topics such as: Control and suppression of vibrations in machinery; vibration isolation and damping treatments; dynamic vibration absorbers; balancing of rotating and reciprocating machinery; critical speed evaluation of flexible rotors; ground vehicle response to road profile excitation and evaluation of ride performance; vibration in electronic equipment and prevention of vibration failures; aircraft vibration and flutter; and response of structures to earthquakes.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 434

MENG 442 Advanced Heat Transfer credit(s): 3

Advanced heat transfer topics with emphasis on industry applications. Small length scale heat transfer problems, contact resistance, multidimensional transients, boiling and condensation heat transfer, and design of heat exchangers.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 341

MENG 443 Combustion credit(s): 3

Combustion processes including explosions, detonations, flame propagation, ignition, and generation of pollutants in moving and stationary energy conversion systems. Focused on fundamental combustion theory in the context of internal combustion engines and, to a lesser degree, the subsequent effect of those emissions on the atmosphere, climate, and human health. Specific focus may vary from year to year.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 322

MENG 445 Heating Vent and Air Condition credit(s): 3

Introduction to the techniques used in the analysis and design of heating, ventilating, and air conditioning (HVAC) systems. Topics include the arrangement of typical air conditioning systems (i.e. all air systems, air and water systems, etc.), moist air processes, comfort and health criteria for indoor air quality, heating and cooling loads, piping system design, building air distribution, and operational principles and performance parameters of typical components (i.e., cooling towers, air washers, heating and cooling coils, etc.)

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 341

MENG 446 Energy Auditing credit(s): 3

This course provides a practical application of thermodynamics and heat transfer concepts with regard to commercial building systems (HVAC, lighting, automated controls, etc.). Students will learn how building systems use electric and natural gas energy, how to identify and make

MENG 465 Introduction to Finite Element credit(s): 3

Development of the stiffness matrix method applied to bar and beam elements. The plane problem is discussed and plane elements are presented. The Isoperimetric formulation is introduced. Modeling and accuracy in linear analysis is considered. Utilizes a commercial finite element program in problem solving. One hour lecture and two hour computer Laboratory each week.

Fulfills the following degree requirement(s): CENG - Tech Elective, MENG - Tech Elective

Prerequisite(s): ENSC 301

MENG 467 Design with Polymers-Composites credit(s): 3

Background of composites, stress-strain relations for composite materials, extension and bending of symmetric laminates, failure analysis of fiber-reinforced materials, design examples and design studies, non-symmetric laminates, micromechanics of composites, properties of fibers and matrix materials.

Fulfills the following degree requirement(s): CENG - Tech Elective, MENG - Tech Elective

Prerequisite(s): MENG 221

MENG 468 Biomaterials and Biomechanical Engineering credit(s): 3

Introduction to the field of biomaterials and biomechanical engineering. Review and continuation of materials and mechanical properties concepts specific to biomaterials. Introduction to the disciplines of biomechanics and biomechanical engineering. Topics covered include orthopedic anatomy and function, implant technology, cardiac anatomy and function, and medical devices used to restore proper physiological function.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 221

MENG 477 Materials Selection for Design credit(s): 3

Methods of materials selection. Systematic approaches for selecting optimal material when competing criteria exist. Real applications and case studies are included. Several topics including fracture mechanics, corrosion, titanium alloys, etc. are covered.

Fulfills the following degree requirement(s): MENG - Tech Elective

Prerequisite(s): MENG 221

MENG 478 Vehicle Dynamics credit(s): 3

Overview of vehicle and engine construction. Various design conditions are covered including acceleration performance, braking forces, road loads, cornering, suspension modeling, and steering systems. Safety considerations for rollover. Tire modeling and its impact on system performance. The Vehicle Development Process is developed from concept through testing. The relationship between performance, emissions, safety, and fuel efficiency to the overall vehicle design is stressed. Each student will complete a project to propose a new vehicle market entry and establish the performance and related product technical specifications for this vehicle.

Fulfills the following degree requirement(s): MENG - Tech Elective

Restriction(s):

Must be the following Class(es): Junior, Senior

Prerequisite(s): ENSC 306

MENG 479 Tribology**credit(s): 3**

In this course, you will learn about foundational concepts in surface metrology, contact mechanics, the nature of surface forces and fundamentals of friction, lubrication, wear and failure, as well as properties of lubricant materials and bearing machine elements. Practical applications and case studies (for example, in automotive, aerospace and biotribology) will be discussed within the broader context of improving energy efficiency and reliability of mechanical systems through the application of these concepts.

Prerequisite(s): ENSC 301 and ENSC 352

Robotics

The minor is for students not majoring in either the Bachelor of Science in Electrical Engineering (BSEE) or the Bachelor of Science in Computer Engineering (BSCpE).

Minor in Robotics (18-21 credits)

One of the following courses: 3 credits

CPSC 121 Computer Science I

ENSC 201 Programming for Engineers

Or equivalent (with approval by the ECE department chair)

One of the following two courses:

CPEN 231/L Embedded Computer Systems/Lab

CPSC 260 Computer Organization

Two required robotics courses

CPEN 442 Introduction to Robotics

3 credits

CPEN 443 Autonomous Mobile Robots

3 credits

Two of the following courses:

6-8 credits

CPEN 342/CPEN 342L Cyber-Physical Systems/Lab

CPEN 430/CPEN 430L Digital Systems Design/Lab

CPEN 431/CPSC 431 Computer Hardware Design & Architecture

CPEN 436 /CPSC 436 Machine Learning in Biomedicine

EENG 201/EENG 201L Circuit Analysis I/Lab

EENG 411 Introduction to Control Systems

EENG 412 Digital Control Systems

EENG 424 Digital Signal Processing

CPSC 323 Machine Learning and Intelligent Systems

CPSC 475 Speech and Natural Language Processing

ENSC 306 Dynamics

MENG 411/ MENG 411L Instrumentation Systems

MENG 451 Computational Dynamics

MENG 461 System Dynamics and Control

Or equivalent (with approval by the ECE department chair)

Master of Business Administration and B.S. in Engineering

To meet the need for business knowledge and skills as an enhancement to the technical engineering degree, students with an aptitude for engineering and the capacity to assume management responsibilities may complete a program which leads to the B.S. in one of the disciplines of engineering and Master of Business Administration (MBA). Earning both the Bachelor of Engineering Management and the MBA takes five years of full-time study. Students choosing this program must complete their bachelor degree with the required General Business Minor before being admitted to the Graduate School of Business.

The General Business Minor is preparation for the MBA.

The minor in Business for Engineering Technologies is a required component of the Engineering Management program. Students in the Civil Engineering program also have the option of the minor in Business for Engineering Technologies. This minor does not include the M.B.A. prerequisite course in Business Information Systems. Work with the Director of the M.B.A. program to determine if the requirement can be waived or if a course like BMIS 235 should be added.

Engineering students who complete BFIN 320 and ECON 200 may have ENSC 300 waived.

Descriptions of both business minors can be found in the School of Business Administration portion of the undergraduate catalog.

For more information on the MBA program, please contact the Marketing & Recruiting Specialist for the Graduate School of Business and/or the School of Business page. Additional information about the M.B.A. program can be found in the graduate catalog.

The School of Health Sciences

Dean: Julie Wolter, PhD

Welcome to the School of Health Sciences, which was established in 2023, in response to a growing need and brings together three departments with long histories at Gonzaga: Human Physiology, Nurse Anesthesia, and Nursing. Consistent with the mission of Gonzaga University, our message is that of making a difference through excellence in education and scholarly pursuits in the Jesuit, Catholic tradition.

Students choosing to enroll in one of our undergraduate programs will be taught by faculty with exemplary records in teaching, research, and service. Many faculty maintain clinical schedules to enrich their integration of theory and practice in the classroom. Their research and scholarly work inform and enhance their teaching and result in improvements in individual and population health. Service is an important component of what we do as it provides the school with the opportunity to fulfill the Jesuit commitment to social justice through working to address the needs of society's most vulnerable.

Human Physiology offers a BS degree for undergraduates as a first step in pursuing a graduate career at other institutions in the physiological sciences or clinically related professions, such as medicine, dentistry, or physical therapy, to name a few.

Nursing builds on a solid foundation in the liberal arts, behavioral sciences, and nursing theory and is informed by ethical principles. Graduates are prepared to practice as generalist nurses with their practice grounded in the principles and processes of safe, competent, and ethical care; effective communication; leadership; and professionalism.

Undergraduate Degree Programs in the School of Health Sciences

- Human Physiology (B.S.)
- Nursing (B.S.N; undergraduate prerequisites for R.N. to M.S.N. degree are listed in the Undergraduate Catalogue)
- Public Health (B.A.)

Degree Requirements for the School of Health Sciences

Students must complete the general degree requirements of the University, including the University Core curriculum, and the requirements of their major.

Please note: No core, major, minor, or concentration courses may be taken under the Pass/Fail option.

Nursing students are referred to the relevant Department of Nursing Student Handbook for a more detailed overview of requirements and expectations. There are separate handbooks for the BSN and graduate (MSN and DNP) programs.

Human Physiology

Chairperson: Patrick Crosswhite

Professors: D. Thorp

Associate Professors: P. Crosswhite, C. Wutzke

Assistant Professors: J. Crissey, D. Kim, M. Lewis, J. Zhang-Lea

Senior Lecturer: J. McKenzie

Lecturer: J. Deckert, E. Marr, A. Underhill, A. Miller

The Bachelor of Science degree in Human Physiology provides a comprehensive examination of human body form and function from the molecular level to the whole organism. This examination begins with an introduction to fundamental physical and life sciences and is followed by in-depth study in all aspects of human anatomy, physiology, and function. This in-depth study includes human movement and biomechanics as well as applied physiology of exercise and physical activity, advanced systems physiology, and physiology of health and disease. Laboratory experiences are used to introduce students to the methods used in the scientific inquiry of human structure and function and culminate in conception and execution of a novel research project. The degree is unique within the University because it emphasizes the mechanisms of human function, adaptation, health and disease, as well as the fundamental process of science, and research methods in investigating human physiology. Because several courses may double-count for both the University Core Curriculum and the Human Physiology degree, the total credits needed to complete the University Core and Human Physiology degree is 104 credits. This can be further reduced by 6 credits if social justice and global studies requirements are carefully selected. Therefore, Human Physiology majors have a minimum of 24 additional elective credits to complete a minor and/or specific prerequisite courses for graduate or professional school.

Because prerequisites for admission to different graduate programs vary, students are advised to obtain the specific prerequisites from programs and schools of interest as early in their academic career as possible.

B.S. Major in Human Physiology: 63 credits

Science Core: 29 credits

BIOL 105, BIOL 105L Information Flow in Biological Systems and Lab	4 credits
CHEM 101, CHEM 101L General Chemistry I and Lab	4 credits
CHEM 102, CHEM 102L General Chemistry II and Lab	4 credits
MATH 148 or higher	3 credits
PHYS 111 and PHYS 111L General Physics I and Lab	5 credits
PHYS 112 and PHYS 112L General Physics II and Lab	5 credits
One of the following two courses:	3 credits
PSYC 101 General Psychology	
SOCL 101 Introduction to Sociology	

Lower Division: 17 credits

HPHY 205 Experimental Design and Statistics	3 credits
HPHY 210 Scientific Writing	3 credits
HPHY 241 and HPHY 241L Human Anatomy and Physiology I and Lab	4 credits
HPHY 242 and HPHY 242L Human Anatomy and Physiology II and Lab	4 credits
HPHY 274 Musculoskeletal Dynamics and Physiology	3 credits

Upper Division: 23 credits

HPHY 375 and HPHY 375L Biomechanics	4 credits
HPHY 376 and HPHY 376L Exercise Physiology	4 credits
HPHY 441L Guided Experimental Design	1 credit
HPHY 442L Guided Research	1 credit
HPHY 499 Culminating Experience	1 credit
HPHY 300-400 level electives <i>(three credits may be lower division science credits if approved by the department)</i>	12 credits

Courses:

HPHY 190 Directed Study **credit(s): 1-3**

Course repeatable for 3 credit.

Topic to be decided by faculty. Course may be repeated to total not more than 2 credits. By permission from department only. Fall, Spring, and Summer.

HPHY 205 Experimental Design and Statistics **credit(s): 3**

Relationships among research, research design, measurement, and data analysis provide the context for an introduction to basic concepts of research design and data analysis. Students will learn how to interpret statistics in peer-reviewed research and how to apply statistical methods to analyze data and address research questions in the sciences. Fall.

Restriction(s):

Must not be in the following Major(s):

HPHY 210 Scientific Writing **credit(s): 3**

An introduction to the fundamentals of writing scientific reports and manuscripts of experimental research, with special emphasis on research in human physiology. Spring.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 205

HPHY 215 GIF: Food Equity and Health **credit(s): 3**

This course is designed to explore students' understanding of how the three macronutrients are digested and absorbed, and the various roles they play in our body. Using this as a basis of understanding, the course will explore how the distribution and access to food impacts human health in the context of a global setting. Students will engage with how food equity and sustainability is a global issue and how socioeconomic and health outcomes are inherently linked to food access. Summer.

HPHY 241 Human Anatomy and Physiology **credit(s): 3**

An introduction to the fundamentals of anatomical and physiological science, emphasizing basic cell processes as well as homeostasis and control. Basic cell processes include compartmentation of cells and tissues, bioenergetics, membrane dynamics, communication, integration, and homeostasis. Topics include cells, tissues, metabolism, the endocrine system, the nervous system, and muscle. Fall.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 241L

Prerequisite(s): CHEM 101 and CHEM 101L and BIOL 105 and BIOL 105L

HPHY 241L Human Anatomy and Physiology Lab **credit(s): 1**

This laboratory covers physiology and both microscopic and gross anatomy of the skeletal system, muscular system, nervous system, and integumentary system. Fall.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 241

HPHY 242 Human Anatomy and Physiology II **credit(s): 3**

This course is a continuation of HPHY 241 emphasizing integration of function. Topics include the cardiovascular, respiratory, renal and immune systems as well as fluid, electrolyte, acid base balance. Spring.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 242L

Prerequisite(s): HPHY 241, HPHY 241L

HPHY 242L Human Anatomy and Physiology Lab II **credit(s): 1**

This laboratory covers the anatomy and physiology of the cardiovascular, respiratory, digestive, urinary and reproductive systems as well as vision, hearing, and equilibrium. Spring.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 242

Prerequisite(s): HPHY 241L

HPHY 244 Nutrition and Metabolism **credit(s): 3**

An introduction to the study of the role macro and micro nutrients including carbohydrates, fat, protein, vitamins, minerals, and water play in bioenergetics. Additional topics include the anatomy and physiology of digestion, absorption, and the microbiome. Spring.

Fulfills the following degree requirement(s): HPHY - Elective credit

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 241 and HPHY 241L

HPHY 274 Musculoskeletal Dynamics and Physics **credit(s): 3**

An introduction to the basic principles of kinesiology with emphasis on osteology, arthrology, and the mechanical interactions between the muscles and joints of the body. Spring.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 205 and PHYS 111 and PHYS 111L and HPHY 241 and HPHY 241L

HPHY 304 Practice in Lab Teaching **credit(s): 1**

Course repeatable for 2 credit.

Students gain experience in assisting in teaching and directing human physiology laboratory sections. The student must have successful completion of the lab for which the student will be a teaching assistant. By permission from department only. May be repeated for different lab courses (e.g., 241L and 242L) with departmental permission to total not more than 2 credits. Fall, Spring, Summer.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 242 and HPHY 242L

HPHY 375 Biomechanics **credit(s): 3**

An introduction to the physical laws and mechanical aspects governing human motion which covers analysis of internal and external forces acting on the human body and the effects of these forces. Topics include kinematics and kinetics of human motion, function of the musculoskeletal system, and mechanical analysis of movement. Fall.

Corequisite(s): HPHY 375L

Prerequisite(s): (HPHY 205 and HPHY 210 and HPHY 242 and HPHY 242L and HPHY 274 and MATH 148 or higher and PHYS 102 and PHYS 102L)

HPHY 375L Biomechanics Lab **credit(s): 1**

An introduction to techniques and experimental methods used in the study of human motion.

Corequisite(s): HPHY 375

HPHY 376 Exercise Physiology **credit(s): 3**

A course dealing with the nature and function of neuromuscular activity, circulation, metabolism, respiration and acid-base balance as they relate to exercise and performance. Fall.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 376L

Prerequisite(s): (HPHY 205 and HPHY 210 and HPHY 242 and HPHY 242L and HPHY 274 and MATH 148 or higher and PHYS 102 and PHYS 102L)

HPHY 376L Exercise Physiology Lab **credit(s): 1**

Laboratory study and techniques dealing with the evaluation of physiological capacities involved in rest, exercise, neuromuscular interactions, metabolism, respiration, and circulation. Fall.

Restriction(s):

Must not be in the following Major(s):

Corequisite(s): HPHY 376

HPHY 390 Directed Study **credit(s): 1-2**

Course repeatable for 2 credit.

Topic to be decided by faculty. Course may be repeated to total not more than 2 credits. By permission from department only. Fall, Spring, Summer.

HPHY 402 Clinical Exercise Physiology **credit(s): 3**

Assessing and treating individuals with chronic diseases and disabilities, as well as other special populations. Content will include physiology and pathophysiology, exercise prescription, clinical applications, and current research related to a variety of diseases and conditions. Fall or Spring on need.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 376 and HPHY 376L

HPHY 422 Cardiovascular Physiology **credit(s): 3**

This course is designed for upper division students and will expand on the core cardiovascular concepts covered in HPHY 242. The course is designed to help students develop a detailed understanding of the physiology and regulation of the cardiovascular system. The course will cover concepts of myocardial function, peripheral vascular function and the integration and regulation of these two components of the cardiovascular system. Fall or Spring on need.

Prerequisite(s): HPHY 376

HPHY 432 Core Integration Seminar **credit(s): 3**

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way

that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): (PHIL 301 or RELI 276 or RELI 330 or RELI 331) and World and Comparative Religion

HPHY 441L Guided Experimental Design **credit(s): 1**

Laboratory research in the study of physiology or a related sub-discipline such as biomechanics or biomedical engineering. Students work in groups with a faculty advisor (course instructor) in proposing, researching and designing an experiment. Students will author a research proposal and conduct pilot work. Spring.

Restriction(s):

Must be in the following Major(s): Human Physiology

Prerequisite(s): (HPHY 375 and HPHY 375L)(and HPHY 376 and HPHY 376L)

HPHY 442L Guided Research **credit(s): 1**

Laboratory research in the study of physiology or a related sub-discipline such as biomechanics or biomedical engineering. Students work in groups with a faculty advisor (course instructor) in conducting, analyzing, and presenting their research. Fall.

Restriction(s):

Must be in the following Major(s): Human Physiology

Prerequisite(s): HPHY 441L

HPHY 451 Systems Neurophysiology **credit(s): 3**

The course is an advanced examination of the cellular and physiological properties of neurons, neural communication / transmission, and the physiological manifestations of the nervous systems control. After examining neural cell function, we begin by exploring the neurophysiological systems involved in sensory pathways including proprioception and vestibular system, pain, vision, auditory, and chemical senses. Then, we apply this knowledge by examining the integration of these systems and their role in normal human physiological function, disease, and performance. Fall or Spring on need.

Prerequisite(s): HPHY 376

HPHY 452 Neuromuscular Control **credit(s): 3**

This course is designed to provide an overview of the concepts and theories foundational to the control of movement. Topics include the organization and application of neural signals, integration of internal and external feedback, and application of neuromuscular control principles in unimpaired and pathological populations. Fall or Spring on need.

Prerequisite(s): HPHY 375

HPHY 453 Neuroanatomy **credit(s): 3**

This course offers an in-depth study of the anatomical organization of the human nervous system. Through a combination of lecture and hands-on laboratory experience, students will explore the gross and microscopic structure of the brain and spinal cord, and the relationships between structure and function. Students will also gain practical experience in the handling and examination of human brain specimens.

Prerequisite(s): HPHY 242 and HPHY 242L

HPHY 477 Environmental Physiology **credit(s): 3**

An in-depth study of specific topics in environmental physiology, including the cellular and systemic responses and adaptations of various organ systems to environmental stress. Fall or Spring on need.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 376 and HPHY 376L

HPHY 478 Physiology of Aging **credit(s): 3**

This course will examine how and why we age, and why we are susceptible to age associated diseases with a focus on healthspan as well as lifespan. It will introduce epidemiology and terminology of aging, discuss theories on why we age, and examine the 9 hallmarks of aging in depth with an emphasis on etiology of those hallmarks in healthy aging and age associated disease. Fall or Spring on need.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): HPHY 376 and HPHY 376L

HPHY 479 Cell and Molecular Physiology **credit(s): 3**

This course will emphasize advanced physiological mechanisms of human cells including signal transduction pathways, cell cycle regulation, and epigenetics. These topics will also emphasize the pathophysiology of chronic human diseases that represent a challenge to modern society including cancer, cardiovascular and infectious diseases. Fall or Spring on need.

Prerequisite(s): HPHY 376

HPHY 480 Applied Immunology **credit(s): 3**

Applied immunology course with a focus on immune cells and their development leading to proper or improper immune function and regulation. Covers topics such as inflammation, tumor responses, autoimmune disorders, allergies, transplant physiology and more. Spring on need.

Prerequisite(s): (HPHY 375 and HPHY 375L)

HPHY 485 Biomedical Engineering **credit(s): 3**

This course is designed to provide an introduction to the broad field of biomedical engineering. Special focus will be placed on topics such as mechanical properties of biological tissues, biomaterials and their physiological interactions, biocompatibility, biomedical implants, medical imaging, robotics and prosthetics, and biomedical ethics. Fall or Spring on need.

Prerequisite(s): (HPHY 375 and HPHY 375L) or ENSC 301

HPHY 489 Advanced Topics **credit(s): 2 or 3**

Course repeatable for 9 credit.

An in-depth review of current research literature on specific topics in human physiology. This course prepares students to study, critically review and evaluate, and discuss results of human physiology research. Fall and Spring.

Restriction(s):

Must not be in the following Major(s):

Prerequisite(s): (HPHY 375 and HPHY 376)

HPHY 490 Directed Study **credit(s): 1-2**

Course repeatable for 2 credit.

Topic to be decided by faculty. Course may be repeated to total not more than 2 credits. By permission from department only. Fall, Spring and Summer.

HPHY 492 Research Techniques **credit(s): 1-2**

Course repeatable for 2 credit.

An introduction to some of the experimental techniques used in research in human physiology. Course content may vary with instructor. Course may be repeated to total not more than 2 credits. By permission from department only. Fall, Spring and Summer.

HPHY 497 Internship **credit(s): 0-6**

Course repeatable for 6 credit.

This course is designed to provide students with the opportunity to receive 0 to 6 course credits for professional work experience in a human physiology-related field. The location, duration, learning activities, and specific learning objectives are decided upon through a written agreement established among the student, internship supervisor and the department. This course may be repeated to total not more than 3 credits and is graded as Satisfactory/Non-Satisfactory. By permission from the department only. Credits for this course do not count toward HPHY required 300-400 level elective credits. Fall, Spring, and Summer.

Restriction(s):

Must be in the following Major(s): Human Physiology

Prerequisite(s): HPHY 242 and HPHY 242L

HPHY 498 Directed Research **credit(s): 1-2**

Course repeatable for 2 credit.

This course provides the motivated student with the opportunity to conduct or assist with a research project under the direction of a human physiology faculty member. Course may be repeated to total not more than 2 credits. Fall, Spring and Summer. By faculty permission only.

HPHY 499 Culminating Experience **credit(s): 1**

Required of all HPHY majors in their senior or final year. Spring.

Restriction(s):

Must be in the following Major(s): Human Physiology

Must be the following Class(es): Senior

Prerequisite(s): HPHY 441L, minimum grade: D and HPHY 442L, minimum grade: D

Nursing

Associate Dean, Administration and Compliance, Chief Nurse Administrator: Joan Owens, PhD, RN

Undergraduate Nursing Programming & Development: Christine Sloan

Professors: S. Boysen (Emeritus), N. Crogan (Emeritus), M. McFarland (Emeritus), J. Ramirez, M. Shaw J. Tiedt

Associate Professors: C. Kottwitz, L. Murphy (Emeritus), J. Owens, M. Schiavenato, B. Senger, C. Sloan

Assistant Professors: E. Hennessey

Senior Lecturers: J. Derzay

Lecturers: A. Berg, S. Edwards, S. Ellefson, J. Garrity, K. Manion, H. Newton, D. Ogorek, T. Redman, Cline, K., Evans, J., Hoving, B., Maefsky, K., Magee, D., Staaben, J., Todd, S., Tviet, T.

Introduction

Grounded in Jesuit and Nursing values, the pre-licensure BSN program offered by the Department of Nursing prepares students to be able to practice as registered nurses in a variety of settings. Students learn to promote health, to care for patients with acute and chronic illnesses, and to support patients and their families at the end of life. The BSN program builds on the curricular themes of servant leadership, social justice, community, and reflective practice. The concept of Complex Adaptive Systems (CAS) serves as the organizing framework for the curriculum. One application of this concept is that students initially care for individuals with more predictable healthcare needs. As they progress in the program, they learn to care for individuals, families, and populations with increasingly more complex healthcare needs in highly complex organizational settings.

Program Overview

Students are admitted to the pre-licensure BSN program as freshmen. At the time they submit their applications to Gonzaga University, nursing applicants must indicate "Nursing" as their first academic interest on the Common Application. Nursing applicants are also required to complete "Section V" of the Common Application Gonzaga Student Supplement. Those not admitted into nursing as freshmen may not become a nursing major at Gonzaga. As freshman nursing majors, students begin the process of completing the GU core requirements and the nursing pre-requisite courses.

Due to constraints on availability of clinical placements, it may take nine semesters to complete the Bachelor of Science in Nursing (BSN) program. The Nursing faculty tries to accommodate student requests to complete the program in eight semesters, but the eight-semester time frame is not guaranteed. Students apply for their preferred time frame (Spring or Fall start)

placement during the second semester of their freshman year and are notified of their placement by the end of that same academic year. If demand for completion in eight semesters exceeds available clinical placements and/or limits on class sizes, students will be placed based by their ranked grade point average in the nursing pre-requisite courses and progression in the program. Students who are major-ready by the end of their sophomore year but are placed in the nine-semester time frame for the program may take a leave of absence in the fall semester of their junior year. The nine-semester time frame is supported by financial aid in the same way as the eight-semester option, and it provides students with opportunities to pursue a minor or to participate in a study abroad program.

Once students begin their upper division nursing courses, they also complete a series of practicum courses that introduce them to professional nursing practice in a variety of healthcare settings. The program also prepares students to take the National Council Licensing Examination (NCLEX) after graduation, which is a requirement for licensure as a registered nurse.

Admission Requirements

Admission to the pre-licensure BSN program is competitive and selective. Students are admitted to the pre-licensure BSN program as freshmen. The decision to admit a student to the BSN program as a freshman is based on consideration of the student's overall portfolio including:

1. Cumulative GPA and grade trends
2. Four years of math and science courses
3. SAT/ACT scores
4. Work or volunteer experience in healthcare
5. One academic letter of recommendation
6. Written essay as well as responses to short answer questions on the application

Information regarding admission to Gonzaga's Nursing Program will follow notification of acceptance to the University by approximately one month.

During their first two years at Gonzaga, students need to maintain a cumulative GPA of 3.0 or better and achieve a minimum grade of "C" (2.0) in all nursing prerequisite courses and their respective labs. If a student receives less than the required minimum grade of "C" in any of the nursing prerequisite courses taken at Gonzaga or taken at any other college/university as a substitution, the student is allowed a single retake in two (2) of these courses. Continuation to the upper division BSN program is contingent upon maintaining a cumulative GPA of 3.0 and successful completion of nursing prerequisite courses.

Bachelor of Science in Nursing: 130 credits

Sample Freshman Year

Fall

BIOL 105 Information Flow in Biological Systems	3 credits
ENGL 101 Writing	3 credits
MATH 121 Statistics	3 credits
NURS 100 Nursing Perspectives	1 credit
PHIL 101 Reasoning	3 credits
SOCI 101 Introduction to Sociology	3 credits

Spring

BIOL 105L Information Flow in Biological Systems Lab	1 credit
CHEM 101 General Chemistry	3 credits
CHEM 101L General Chemistry Lab	1 credit
COMM 100 Communication and Speech	3 credits
PSYC 101 General Psychology	3 credits
First Year Seminar (193)	3 credits

Sophomore Year

Fall

HPHY 241 Anatomy and Physiology I	3 credits
HPHY 241L Anatomy and Physiology I Lab	1 credit
NURS 251 Determinants of Health	3 credits
PHIL 201 Philosophy of Human Nature	3 credits
Core Broadening Requirement: (Literature)	3 credits
Core Fine Art	3 credits

Spring

BIOL 170 Microbiology	3 credits
BIOL 170L Microbiology Lab	1 credit
HPHY 242 Anatomy and Physiology II	3 credits
HPHY 242L Anatomy and Physiology II Lab	1 credit
HPHY 244 Nutrition and Metabolism	3 credits
NURS 210 Growth and Development	3 credits
Broadening Requirement: (History)	3 credits
RELI Christianity and Catholic Traditions	3 credits

Junior Year

Fall

NURS 311 Professional and Therapeutic Communication	2 credits
NURS 314 Assessing and Promoting Wellness	4 credits
NURS 315 Practicum I: Healthy Individuals, Families, and Communities	5 credits
NURS 316 Pathophysiology and Pharmacology I	4 credits
PHIL 301 Ethics	3 credits

Spring

NURS 351 Care of Individuals and Families	4 credits
NURS 352 Practicum II: Care of Individuals and Families	5 credits
NURS 356 Pathophysiology and Pharmacology II	3 credits
NURS 404 Research and Information Management	3 credits
RELI World or Comparative Religion	3 credits

Senior Year**Fall**

NURS 402 Acute and Chronic Alterations in Health Status	4 credits
NURS 403 Practicum III: Acute/Chronic Alterations in Health	6 credits
PHIL 455 Healthcare Ethics	3 credits

Spring

NURS 465 Professional Nursing within a Complex Adaptive System	3 credits
NURS 466 Community and Populations as Clients	3 credits
NURS 467 Practicum IV: Community and Populations as Clients	2 credits
NURS 468 Practicum V: Member of the Nursing Profession	3 credits
NURS 469 Nursing Leadership and Management	4 credits

RN to MSN Program

(for Registered Nurses)

The RN to MSN program offers the licensed registered nurse with an associate degree in nursing the opportunity to earn a master's degree in nursing in less time and with fewer credits than would be required if completing separate BSN and MSN degrees. The MSN is the degree awarded, and there is no option for earning a separate BSN degree. To meet the needs of working registered nurses, the program is offered in a distance delivery format. Students complete five courses (15 credits) that "bridge" them to the master's level courses.

Once the "bridge" courses have been successfully completed, students progress immediately to the master's level courses provided they maintain a minimum cumulative GPA of 3.0. At the master's level, there is an emphasis on preparation for an advanced role as a nursing leader. Students take the core MSN courses and then complete the Nursing Leadership in Healthcare (NLH) track or concentration. Grounded in Jesuit and Nursing values, the program builds on the curricular themes of servant leadership, social justice, community, and reflective practice. The concept of Complex Adaptive Systems (CAS) serves as the organizing framework for the curriculum.

Admission Requirements RN to MSN Program

At the time of application to the RN to MSN program, the applicant also applies for admission to Gonzaga University. The applicant must have an associate degree in nursing from an accredited college and must submit one official transcript from each college or university. The decision to admit an applicant to the RN to MSN program is based on consideration of the individual's overall portfolio including:

1. Cumulative GPA of 3.0 or better (4.0 scale)
2. Evidence of a current unencumbered RN license
3. One official transcript from every college or university attended. Only degrees and courses from regionally accredited institutions will be accepted.
4. Current curriculum vitae (CV)
5. Two letters of recommendation from individuals such as employers, colleagues, or professors who can attest to the applicant's leadership, interpersonal skills, professional practice, critical thinking and judgment, and potential for advanced study.
6. Typewritten statement that describes the applicant's:
 - a) Interest in the RN to MSN Program and specific MSN option, i.e., Nursing Leadership in Healthcare
 - b) Professional goals
 - c) Personal and professional strengths
 - d) Professional experiences
7. Non-native English speakers are required to provide proof of English proficiency. Gonzaga University accepts the following:
 - a) Score of 6.5 or better on the IELTS, or
 - b) Official TOEFL score of at least 88 ibt or 580 pbt, or
 - c) Completion of an associate's degree in nursing from an institution where English is the primary medium of instruction.

Degree Requirements

The RN to MSN program requires the completion of five "bridge" courses (15 credits) with a minimum GPA of 3.0 in order to progress to MSN-level course work.

Bridge Courses: 15 Credits

PHIL 201 or PHIL 301 (One PHIL course at GU required)	3 credits
NURS 320 Statistics	3 credits
NURS 406 Nursing Research	3 credits
NURS 463 Community Health	3 credits
NURS 464 Community Health Practicum	3 credits

The master's-level courses are listed in the Graduate Catalog.

Courses:

NURS 100 Nursing Perspectives credit(s): 1

This course introduces students to the profession of nursing and seeks to develop in the student the necessary skills and characteristics for successful participation in nursing education at Gonzaga University. The background of nursing and nursing theories, the diverse roles and scope of practice governing nurses in health care, appraisal of healthcare information, the use of technology for research, and the responsibility of nurses in addressing contemporary healthcare issues will be explored. Students are introduced to the mission, ethos, and academic honesty policy of the university and the relationship to nursing, thereby increasing self-awareness and clarifying personal beliefs and goals for professional practice.

Restriction(s):

Must be in the following Major(s): Nursing

NURS 210 Growth and Development credit(s): 3

Examines multiple dimensions of individual and family growth and development across the lifespan. Within each developmental stage students examine areas of language, cognition, social-emotional growth and physical development. This course highlights developmental milestones at each stage of the lifespan. Genetic, gender, and cultural influences are considered.

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): PSYC 101, minimum grade: C and NURS 100, minimum grade: C

NURS 251 Social Determinants of Health credit(s): 3

This course introduces the ecological framework of health and focuses on one's physical and social environments and access to health care as determinants of health, health disparities, and health inequities. Students will gain an understanding of factors that contribute to illness versus wellness, as well as factors that affect health outcomes and recovery from illness. Students will learn basic community assessment skills, including how to use and interpret basic epidemiological measures.

Fulfills the following degree requirement(s): Core: Social Justice

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): MATH 121, minimum grade: C and SOCI 101, minimum grade: C and NURS 100, minimum grade: C

NURS 311 Professional and Therapeutic Communication credit(s): 2

This course is designed to provide the learner a theoretical foundation for effective communication. Using the lens of complex adaptive systems and servant leadership, selected models of communication, health and illness, health communication, conflict resolution and negotiation are explored for their implications for nursing practice. Diversity issues affecting perception of health/illness and influencing verbal and nonverbal communication are examined. Media and internet influence on health care and the profession of nursing are

included. Theory-based strategies to improve communication skills throughout the health care continuum are stressed.

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): NURS 100, minimum grade: C and NURS 210, minimum grade: C and NURS 251, minimum grade: C

NURS 314 Assessing and Promoting Wellness credit(s): 4

Complex adaptive systems, as they relate to body systems, individuals (children, adolescents, adults, and older adults), and families are used as a guiding framework. Theoretical and research-based content in individual and family health and development throughout the life span is emphasized. Students learn foundational skills for the health assessment and care of individuals and family. The student integrates functional health patterns, physical assessment findings, and family concepts to formulate nursing diagnoses and a nursing plan of care. The nursing role in health promotion and health education is emphasized.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 315, NURS 316

Prerequisite(s): NURS 100, minimum grade: C and NURS 210, minimum grade: C and NURS 251, minimum grade: C

NURS 315 Practicum I: Assess and Promote Wellness credit(s): 5

Students will use knowledge from Nurs 314 to assess and promote wellness for healthy individuals and families in community settings. Students participate in learning activities in the Learning Resource Center, in a variety of community-based settings, and in post clinical conferences. The course celebrates the body, mind, and spirit of the student in nursing and recognizes that learning transforms. In the process of transformation, reflection provides the key to understanding.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 314, NURS 316

Prerequisite(s): NURS 100, minimum grade: C and NURS 210, minimum grade: C and NURS 251, minimum grade: C

NURS 316 Pathophysiology and Pharmacology I credit(s): 4

This is the first of a two course pathophysiology and pharmacology series in the BSN curriculum. The course is designed to improve the learner's understanding of how alterations in normal human anatomic structure and physiology function may impact various organ systems, body homeostasis, and medication management. A student-center case-based active learning model will be utilized to exemplify basic and clinical pharmacology principles for common outpatient disease processes. Nursing pharmacology fundamentals, including principles of drug administration, pharmacokinetics, pharmacodynamics, adverse drug effects, drug interactions, and medication errors are introduced. These principles form the foundation for applied pharmacology case studies. Drug class prototypes will be reviewed using an organ system case-

based pathophysiologic approach to therapeutics. The case studies illustrate key pathophysiologic and pharmacology concepts thus providing students an opportunity for critical thinking, synthesis, integration, and application of course material to therapeutic decision making, planning, and managing care for individuals.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 314, NURS 315

Prerequisite(s): NURS 100, minimum grade: C and NURS 210, minimum grade: C and NURS 251, minimum grade: C

NURS 320 Statistics for Health Professions credit(s): 3

This online course provides an introduction to descriptive and inferential statistics. It includes the statistical procedures used most frequently to analyze quantitative data for health science and nursing research. Emphasis is placed on the conceptual understanding and correct application of statistical tests, as well as the correct interpretation of statistical results. Some mathematical calculation will be necessary. The ultimate goal will be for the learner to understand statistical reasoning and become familiar with the correct use and interpretation of statistics.

Restriction(s):

Must be in the following Major(s): Nursing, Nursing

NURS 351 Care of Individual and Family credit(s): 4

This course focuses on the development of nursing competence in planning and managing care for individuals and families with alterations in health status. The course stresses the integration of physiological, pathophysiological, pharmacological and developmental concepts as the foundation for professional nursing practice. Theoretical foundations for the provision of care to individuals and families with alterations in health related to fluid and electrolyte balance and to the reproductive, urinary tract/renal, musculoskeletal, and digestive systems, and some of the more common mental health problems are addressed. Use of theory and research based assessment strategies and nursing interventions required to provide care to these individuals/families in health care organizations are emphasized. Critical thinking and diagnostic reasoning are stressed.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 352, NURS 356

Prerequisite(s): NURS 314, minimum grade: C (and NURS 315, minimum grade: C or NURS 315) and NURS 316, minimum grade: C

NURS 352 Practicum II: Care Individual and Family credit(s): 5

Using knowledge from NURS 351, this course focuses on the provision of care for individuals and families with health care needs related to fluid-electrolyte disturbances, the endocrine, reproductive, urinary tract/renal, musculoskeletal, and digestive systems. Emphasis is placed on

the development of self-discovery and the meaning of experience as a reflective practitioner. Students participate in learning activities in the Learning Resource Center, in a variety of clinical settings within healthcare organizations, and in post-clinical conferences.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 351, NURS 356

Prerequisite(s): NURS 314, minimum grade: C(and NURS 315, minimum grade: C or NURS 315) and NURS 316, minimum grade: C

NURS 356 Pathophysiology and Pharmacology II credit(s): 3

This is the second of a two course pathophysiology and pharmacology series in Gonzaga's BSN curriculum. This course builds on the content and concepts learned in the NURS 316 pathophysiology and Pharmacology I course. It is designed to address more complex pathophysiologic processes which are often encountered in hospitalized acute care patients. A student centered case-based active learning method will be utilized to exemplify advanced clinical pharmacology principles for common inpatient disease processes. Drug class prototypes will be reviewed using an organ system case-based pathophysiologic approach to therapeutics. The case studies illustrate key pathophysiologic and pharmacology concepts thus providing students an opportunity for critical thinking, synthesis, integration, and application of course material to therapeutic decision making, planning, and managing care for individuals.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 351, NURS 352

Prerequisite(s): NURS 314, minimum grade: C(and NURS 315, minimum grade: C or NURS 315) and NURS 316, minimum grade: C

NURS 402 Care of Individuals and Families credit(s): 4

Focuses on the continued development of nursing competence in planning and managing care for individuals and families with complex alterations in health status. Stresses integration of physiological, pathophysiological, psychological, and pharmacological concepts as essential to professional nursing practice. Emphasis is placed on development of focused assessment skills needed to provide care to individuals and families with health care needs related to the cardiovascular, neurological, endocrine, pulmonary, renal, and mental health systems.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 403

Prerequisite(s): NURS 351, minimum grade: C and NURS 352, minimum grade: C and NURS 356, minimum grade: C

NURS 403 Practicum III: Acute/Chronic Alt Health credit(s): 6

This course focuses on providing care for individuals and families with chronic and complex health care needs related to the cardiovascular, neurological, endocrine, pulmonary, renal and mental health systems. Examines internal resources (such as faith or spiritual health) as a source of nourishment when making decisions--especially those involving ethics, urgency, reaction and immediacy. Students participate in learning activities in the Resource &

Simulation Center, in a variety of clinical settings within healthcare organizations, and in post-clinical conferences.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 402

Prerequisite(s): NURS 351, minimum grade: C(and NURS 352, minimum grade: C or NURS 352) and NURS 356, minimum grade: C

NURS 404 Research and Information Management credit(s): 3

Provides an introduction to quantitative and qualitative research principles and methodologies, including evaluation of research studies and application to practice. Critical analysis of nursing and health care research is emphasized. Stresses research design, sampling, data collection strategies and ethical considerations in research.

Fulfills the following degree requirement(s): Core: Writing Enriched

Restriction(s):

Must be in the following Major(s): Nursing

Must be the following Class(es): Junior, Senior

Prerequisite(s): MATH 121, minimum grade: C

NURS 406 Nursing Research credit(s): 3

This course provides an introduction to quantitative and qualitative research principles and methodologies, including evaluation of research studies and application to practice. Critical analysis of nursing and health care research is emphasized. The course stresses research design, sampling, data collection strategies, and ethical considerations in research.

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): NURS 320, minimum grade: C

NURS 463 Community Health credit(s): 3

Designed for the licensed registered nurse, this course introduces community-as-partner model as a guide for providing cost-effective, accessible care for families, groups, and populations. Emphasis will be placed on cultural competence, the use of complex adaptive systems to understand the interaction among and between systems within community health practice, epidemiological concepts in the development of effective health policy/programs, and ethical dilemmas inherent in the community-as-partner model of practice.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 464

NURS 464 Community Health Practicum credit(s): 3

This practicum emphasizes the use of the community-as-partner model to guide community health practice. Students will explore the various dimensions of a healthy community as they actively participate in community health practice that emphasizes assessing, planning, implementing, and evaluating cost-effective, accessible care for families, groups, and populations within a complex adaptive system. Students will expand their cultural competence, apply epidemiological concepts in the development of effective health policy/programs, and

gain an appreciation of the ethical dilemmas inherent in the community-as-partner model of practice.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 463

NURS 465 Professional Nurse Practice Complex Adaptive Systems credit(s): 3

Considers nursing leadership roles within complex adaptive systems and examines transition to the professional role. Servant leadership principles are connected to nursing leadership.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 466, NURS 467, NURS 469

Prerequisite(s): NURS 418, minimum grade: C

NURS 466 Population Focused Health credit(s): 3

This course will address communities and populations as the clients for nursing interventions. The focus of this course is interventions used to promote and improve population health. A particular emphasis will be interpreting assessment and epidemiological data to identify and prioritize community/population problems and selecting appropriate interventions for an identified population health problem. Learners also will be introduced to selected principles and theories that underlie population-focused interventions. Program planning and evaluation processes and strategies will be considered. Use the criteria of effectiveness, efficiency, equity, security, and liberty to analyze a public health policy.

Restriction(s):

Must be in the following Major(s): Nursing

Corequisite(s): NURS 465, NURS 467

Prerequisite(s): NURS 251, minimum grade: C and NURS 402, minimum grade: C and NURS 403, minimum grade: C and NURS 404, minimum grade: C

NURS 467 Practice IV: Partner Pop Health Practicum credit(s): 2

This is a project-based practicum course. Students will work in an assigned community agency to develop a comprehensive plan for addressing an identified population health problem. This course will give students experience in working in evolving population-focused indirect, nursing roles as a project developer/leader and consultant. Practicum experiences will be intentionally designed to give students experience collaborating with professionals from a variety of other helping disciplines. Students will be expected to interact with their assigned agency and its clients on a regular basis.

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): NURS 251, minimum grade: C and NURS 402, minimum grade: C and NURS 403, minimum grade: C and NURS 404, minimum grade: C

NURS 468 Practice V: Member of Nurse Profess credit(s): 3

This capstone course is designed to facilitate the transition from the role of student nurse to that of a professional nurse through an intensive practicum experience in a clinical setting of the student's choice. With the guidance/supervision of an experienced registered nurse preceptor, the student has the opportunity to synthesize and apply knowledge and skills gained in the Bachelor of Science in Nursing (BSN) program, demonstrate competencies for entry level

nursing practice, and practice nursing leadership within a complex adaptive system (CAS). There is continued emphasis on the significance of reflection as a way of gaining the insights needed to achieve safe, high quality, client-centered practice and effective, ethical leadership. Students examine their own clinical practice and leadership in light of the characteristics of servant leadership. Each student develops an individualized learning contract in collaboration with faculty and the clinical preceptor; the learning contract articulates the student's goals and specific strategies for meeting them. EACH STUDENT PRACTICUM REQUEST WILL BE SUBJECT TO REVIEW BY FACULTY TO DETERMINE FINAL CLINICAL PLACEMENT.

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): NURS 315 and NURS 352 and NURS 403

NURS 469 Nursing Leadership and Management credit(s): 4

This course focuses on the professional nursing roles of the nurse leader/manager as a change agent, advocate, and role model for others in the health care setting. The course addresses the management skills of scheduling, budgets, delegation, and information technology, and explores health care policy, finance and regulatory environments. In addition, this course addresses the nurse leader's role in maintaining clinical expertise, effective communication, flexibility, collaboration and conflict resolution.

Equivalent(s): NURS 417

Restriction(s):

Must be in the following Major(s): Nursing

Prerequisite(s): NURS 418, minimum grade: C

NURS 490 Clinical Internship credit(s): 1-3

Course repeatable for 15 credit.

Assists nurses in period of transition from nursing student to registered nurse or from one practice setting to another. Adaptation to role transition fostered through preceptorship with expert clinical RN and through interaction with faculty. Opportunities to both practice and master current knowledge and skills and acquire new ones.

Restriction(s):

Must not be in the following Major(s): Must be in the following Major(s): Nursing

NURS 492 Clinical Update Level I-III credit(s): 1-5

Course repeatable for 12 credit.

Opportunity to pursue a nursing project or topic of choice with guidance of a faculty member.

Restriction(s):

Must be in the following Major(s): Nursing

NURS 496 Independent Practicum credit(s): 1-4

Course repeatable for 12 credit.

Opportunity to explore a clinical field or an expanded nursing role with guidance of a faculty member and a clinical preceptor.

Restriction(s):

Must be in the following Major(s): Nursing (Post RN)

NURS 497 Internship

credit(s): 0-6

Course repeatable for 6 credit.

Requires completion of a form, department permission and cannot be registered for via Zagweb.

NURS 498 Special Topics

credit(s): 1-3

for 6 credit.

Seminars designed to address special topics in nursing and health care, based on student and faculty interests. Prerequisite: permission. Fall, Spring, Summer - On sufficient demand.

NURS 499 Special Topics

credit(s): 1-3

Course repeatable for 12 credit.

Seminars designed to address special topics in nursing and health care, based on student and faculty interests. Prerequisite: permission. Fall, Spring, Summer - On sufficient demand.

Public Health

Chairperson: Robin Pickering, Ph.D.

B.A. in Public Health: 36 Credits

PUBH 101 Introduction to Public Health	3 credits
MATH 121 Introductory Statistics	3 credits
NURS 251 Determinants of Health	3 credits
PUBH 260 Health Communication & Theories of Human Behavior	3 credits
PUBH 320 Epidemiology & Applied Biostatistics	3 credits
PUBH 450 Health Policy & Political Determinants of Health	3 credits
PUBH 499 Public Health Practicum & Internship	3 credits
Elective Credits: <i>Choose 5 of the following courses:</i>	15 credits

- PUBH 340 Environment, Climate Change, & Health
- PUBH 360 Global Health Issues
- SOCI 283 Sociology of Health & Medicine
- SOCI 343 Sociology of Reproduction
- PUBH 280 Public Health Advocacy**
- PUBH 310 Health Leadership & Management**
- PUBH 480 Public Health Planning**
- PUBH 490 Public Health Implementation & Evaluation
- BIOL 104 & BIOL 104L: Indigenous Science
- ENGL 105 Disability in Literature
- PHIL 455 Health Care Ethics
- PSYC 396 Health/Pediatric Psychology
- RELI 193 Religion & Medical Science
- RELI 376 Christian Sexual Ethics
- SOCI 383 Environmental Sociology
- WGST 304 Feminism & Science

Courses accepted as PUBH electives for students with double majors/minors and appropriate prerequisites:

- BIOL 335 Advanced Genetics
- BIOL 331 Parasitology
- BIOL 374 Immunology
- BIOL 375 Virology
- ECON 333 Health Economics
- SPAN 318 Medical Spanish & Cultural Competency

**Students wishing to sit for the Community Health Education Specialist (CHES) Exam must complete these courses.

Public Health Minor: 21 Credits

PUBH 101 Introduction to Public Health	3 credits
NURS 251 Determinants of Health	3 credits
PUBH 260 Health Communication & Theories of Human Behavior	3 credits
PUBH 320 Epidemiology & Applied Biostatistics	3 credits
PUBH 340 Environment, Climate Change, & Health	3 credits
PUBH 360 Global Health Issues	3 credits
PUBH 450 Health Policy & Political Determinants of Health	3 credits

Courses:

PUBH 101 Introduction to Public Health **credit(s): 3**

Course repeatable for 6 credit.

This course provides an overview of the field of public health, its history, key concepts, and the role of public health in promoting and protecting the health of populations. The course will also explore public health professions and Essential Public Health Services. (fall, annually)

PUBH 260 Health Communication and Theories of Human Behavior **credit(s): 3**

Course repeatable for 6 credit.

This course explores the social and behavioral factors that influence health and the strategies used to promote healthy behaviors and prevent disease. The course will explore the role of logical fallacies, cognitive biases, disinformation, and misinformation in health decision-making process. Students will integrate evidence-based communication strategies, professional ethics, and cultural humility to promote health goals consistent with personal values. This course also provides an exploration of the intersection between health communication and theories that underpin human behavior change within the context of public health. (spring, even years)

PUBH 280 Public Health Advocacy **credit(s): 3**

Course repeatable for 6 credit.

This course explores the role of advocacy in public health efforts through coalition-building, social networking and mobilization, interpersonal communication, and negotiation, as well as the use of media and social platforms for generating public discourse. Students will explore the use of counseling, public campaigns, and political processes to advocate for health among diverse populations. Students will integrate cultural humility and professional ethics to promote health goals consistent with personal values. (spring, odd years)

PreRequisite(s): PUBH 101

PUBH 310 Health Leadership and Management **credit(s): 3**

Course repeatable for 6 credit.

This course examines principles of health leadership and management in the context of public health organizations. Students will explore leadership theories, management strategies, and the application of these concepts to address contemporary challenges in public health. Special attention will be given to coordinating relationships with partners and stakeholders. Students will apply Culturally and

Linguistically Appropriate Services (CLAS) standards and enhance continuing cultural competence within a workplace context. (spring, even years)

PreRequisite(s): PUBH 101

PUBH 320 Epidemiology and Applicable Biostatistics **credit(s): 3**

Course repeatable for 6 credit.

This course explores the distribution and determinants of diseases in populations. Students will learn basic epidemiological principles and methods used to investigate and analyze health-related issues. Students will interpret statistical public health research and draw conclusions. (spring, even years)

PreRequisite(s): PUBH 101 and MATH 121

PUBH 340 Enviroment, Climate Change, and Health **credit(s): 3**

Course repeatable for 6 credit.

This course explores the intricate connections between the environment, climate change, and public health. Students will examine the impact of environmental factors on health outcomes, assess the impact of climate change on health disparities and vulnerable populations, and develop an understanding of how climate change poses challenges and opportunities for public health interventions. (fall, odd years)

PreRequisite(s): PUBH 101

PUBH 360 Global Health Issues and Stratgs **credit(s): 3**

Course repeatable for 3 credit.

This course investigates health issues that transcend national borders and explores the challenges and opportunities of addressing health disparities on a global scale. Students will analyze the critical issues affecting global health, while appreciating the complexities, challenges, and opportunities in the field. Topics include infectious and chronic diseases, health disparities, healthcare delivery systems, and the impact of socio-economic and cultural factors on health outcomes.

(fall, even)

PreRequisite(s): PUBH 101

PUBH 450 Health Policy and Political Determinants of Health **credit(s): 3**

Course repeatable for 6 credit.

The course aims to provide students with a comprehensive understanding of the intersection between health policy, political determinants of health, and health disparities. (fall, odd years)

PreRequisite(s): PUBH 101

PUBH 480 Public Health Planning **credit(s): 3**

Course repeatable for 6 credit.

This course will enable students to plan a targeted public health promotion program using evidence-based program design. Students will apply health content knowledge, communication skills, and behavior change theory to gain necessary skills for securing grant funding and program support. Emphasis will be placed on developing and understanding needs assessment, program rationale, logic modeling, mission statements, goals and objectives. (fall, odd years)

PreRequisite(s): PUBH 101

PUBH 490 Public Health Implemetation and Evaluation **credit(s): 3**

Course repeatable for 6 credit.

This course will enable students to create a detailed and effective public health intervention and evaluation using evidence-based practices. Emphasis will be placed on developing and understanding public health marketing practices, implementation plans, budget development, evaluation protocols, and effective public health promotion program advocacy. Students will present their comprehensive,

capstone project (building from summative project created in PUBH 480) at the conclusion of the course. (spring, odd)

Restriction(s):

Must be the following Class(es): Senior

PreRequisite(s): PUBH 101 and PUBH 480

PUBH 499 Public Health Practicum

credit(s): 3-12

Course repeatable for 12 credit.

The Public Health Capstone and Internship course is designed as the culminating experience for students in the Public Health program, providing an opportunity to integrate and apply the knowledge, skills, and competencies gained throughout their academic journey. This course combines a structured capstone project with a hands-on internship, offering students a comprehensive and practical understanding of public health principles and practices. (prerequisite of senior status, PUBH 101). (spring, odd years)

Restriction(s):

Must be the following Class(es): Senior

PreRequisite(s): PUBH 101, minimum grade: D

School of Leadership Studies

Dean: Dr. Jeff Borden, EdD

Mission

The School of Leadership Studies strives to create, educate, and support leaders; contribute to the health of people, communities, and organizations; and to be of service in meeting the learning needs of a complex society.

Our programs embody the University's Mission and the Ignatian spirit on which Gonzaga University is founded. Ethics, excellence, spirit, and community are guiding values for all aspects of the School. Faculty scholarship and research contribute positively to the professions, the global community, and the classroom.

Through a spirit of inquiry and lifelong learning, our students expand their capacity to transform thinking, and engage in ethical problem solving and decision making. New knowledge is acquired in a learning environment of respect and high standards.

Program in the School of Leadership Studies

Comprehensive Leadership Program

Comprehensive Leadership Program

Director: Josh P. Armstrong, Ph.D.

Program Coordinator: Kristin Telin, M.A.

The Comprehensive Leadership Program (CLP) at Gonzaga University provides selected undergraduate students with the opportunity to develop core knowledge and skills for leadership. The CLP fosters the development of individuals who lead for the common good. This interdisciplinary, experiential program exposes undergraduates to, and prepares them for, leadership experiences in the world. Students will explore power, authority and influence through three dimensions of leadership: self-awareness, relationship with others, and leadership for the common good.

Students who complete this undergraduate leadership minor will:

- gain knowledge and understanding of foundational leadership theories and demonstrate the ability to apply theories in the practice of leadership
- construct an evolving personal philosophy of leadership that demonstrates self-knowledge and theoretical understanding
- develop an understanding of organizational change processes, team dynamics, emotional intelligence, and conflict management within the practice of leadership
- acquire knowledge of diverse cultures, cross-cultural communication, the dynamics of privilege and oppression, and the uses of power between groups

Undergraduates take the Minor in Leadership Studies in conjunction with their chosen major in any academic field, including business, engineering, nursing, computer science, biology, chemistry, education and the liberal arts. Admission to the Comprehensive Leadership Program is competitive and the application takes place during the fall of a student's first year, and is based on demonstrated leadership and desire to study leadership through written essays, individual interviews, and group interviews.

Requirements

Students in the Comprehensive Leadership Program complete the requirements for a Bachelor's degree in business, engineering, the arts and sciences, nursing and human physiology, or education, etc., along with a Minor in Leadership Studies. Students must satisfy the University and college core curricula relevant to their major.

The courses listed below constitute the Minor in Leadership Studies for undergraduate students. The program is designed flexibly so that students with any major can graduate in four years. Waivers and substitutions for department requirements may be granted to meet special academic needs. In addition, the University waives the fees for credits in excess of the usual eighteen-credit per semester limit for qualified students, up to 21 hours per semester when taking an LDRS course in that semester.

CLP students will complete the following Leadership Studies LDRS courses that amount to 15 credit hours, and select 6 credit hours from the interdisciplinary list of courses, one of which must be an LDRS course.

Master of Arts in Communication and Leadership Studies (COML) and Master of Arts in Organizational Leadership (ORGL) 4+1 Pathway

Program:

Majors interested in pursuing a Master of Arts in Communication and Leadership Studies (COML) or a Master of Arts in Organizational Leadership (ORGL) may apply to the graduate program at the end of the academic year immediately preceding their final year of undergraduate study. Those who meet the COML or ORGL admissions standards will be granted provisional acceptance. During their final year of undergraduate study, these students will be able to enroll in up to six graduate-level COML or ORGL credits in addition to their undergraduate course load, with no additional or separate charge for graduate credits. "4+1" students will be limited to a maximum of 18 credits per semester, including graduate credits, in each of the two semesters of their final year of undergraduate study.

Leadership Studies Minor: 21 credits

Leadership Studies Common Courses: 15 credits

First Year

LDRS 200 Foundations of Leadership 3 credits

Second Year

LDRS 315 Theories of Leadership & Organizations 3 credits

LDRS 325 The Practice of Leadership 3 credits

Third Year

LDRS 375 Leading Across Cultures 3 credits

Fourth Year

LDRS 450 Contemporary Issues in Leadership 3 credits

Interdisciplinary Electives for Leadership Minor 6 credits

BENT 490 Creativity, Innovation and Entrepreneurship

BRCO 470 Broadcast Leadership

COMM 401 Communication and Leadership

COMM 430/INST 430 Intersectional Communication

COMM 440/INST 440 Rhetoric of Social Change

ECON 311 Global Economic Issues

EDTE 305 Intercultural Competence Development

ENSC 405 Engineering Project Management

INST 344 International Organizations

INST 350 International Ethics

LDRS 355 Intercultural Experience on Leadership

LDRS 390 Outdoor Leadership

LDRS 392 Women in Leadership

LDRS 394 Leadership and Storytelling

LDRS 395 Service and Leadership

LDRS 396 Leadership & Social Change
LDRS 397 Leadership and Film
LDRS 497 Leadership Internship
MGMT 350 Principles of Management
MGMT 355 International Management
PHIL 455 Health Care Ethics
PRLS 450 Organizational Issues for PR
PSYC 380 Industrial-Organizational Psychology
RELI 327 Christian Leadership
SOCJ 330 Society and the Individual
WGST 202 Gender, Difference, and Power
WGST 303 isms: Racism, Classism, Sexism

In addition to the course work above, Comprehensive Leadership Program students participate in a variety of co-curricular activities including seminars, retreats, and speakers.

Courses:

LDRS 200 Foundations of Leadership credit(s): 3

This course is designed to engage students in essential foundational questions relating to the areas of knowledge and competence that are fundamental to the study and practice of leadership. Spring.

Restriction(s):

Must be in the following Major(s): Leadership Studies

LDRS 315 Theories of Leadership and Organization credit(s): 3

This course explores leadership theory and organizational frames models as students develop and systematic theoretical leadership framework for personal and complex organizations. Fall.

Restriction(s):

Must be in the following Major(s): Leadership Studies

Prerequisite(s): LDRS 200

LDRS 325 The Practice of Leadership credit(s): 3

This course is designed to be a practical, skill-building leadership course. The focus of this course will be on developing and practicing key leadership skills such as managing conflict, team building, communication, decision making, ability to delegate, creativity, empathy and emotional intelligence, practice of presence, provide appropriate feedback, and listening. The course will involve simulations, case studies, role plays, exercises and discussions designed to give students opportunities to practice and cultivate essential leadership skills. Spring.

Restriction(s):

Must be in the following Major(s): Leadership Studies

Prerequisite(s): LDRS 200

LDRS 350 Intercultural Perspective in Leadership credit(s): 1

Understand and practice key concepts of leadership theory through an international experience. The leadership theories explored include servant leadership, social change model, and adaptive leadership in Zambia, Africa. Spring

LDRS 355 Intercultural Experience on Leadership credit(s): 3

This course seeks to understand and practice key concepts of leadership theory through an international experience, develop and promote an ethic of accompaniment through our community development projects, develop intercultural competencies as they strive to be global leaders, and develop self-awareness and critical thinking skills through experiential education and critical reflection of our international service. Summer

Fulfills the following degree requirement(s): Core: Global Studies

LDRS 375 Leading Across Cultures credit(s): 3

Through this course, students will gain knowledge of diverse cultures, cross-cultural communication, the dynamics of privilege and oppression, and the uses of power between groups. To develop cultural competency, leaders need to know: themselves, others, the relevant issues, and have an appreciation and curiosity for working with others. Students will connect global leadership concepts to practice and engage in a number of activities, discussions, and self-assessment instruments to increase their self-awareness of leadership styles, abilities, strengths, and limitations. Fall.

Restriction(s):

Must be in the following Major(s): Leadership Studies

Prerequisite(s): LDRS 315 and LDRS 325

LDRS 390 Outdoor Leadership credit(s): 3

Course repeatable for 6 credit.

This course is designed to look into the models of outdoor education known as Adventure Education and Expeditionary Learning. Both Adventure Education and Expeditionary Learning came out of the Outward Bound movement of the 1940's in England and later in the 1960's in the USA. While the concepts are based in the foundational tenants of outdoor education, Adventure Education and Expeditionary Learning focus on the concept of adventure and the context of the "expedition" as the container in which learning takes place. This is a leadership seminar, but it is also a seminar about risk, adventure, decision-making, education and outdoor competency - it will be about teaching, learning and leading through adventure.

Restriction(s):

Must not be in the following Major(s):

LDRS 392 Women and Leadership credit(s): 3

This course will look at gender differences in leadership styles and efficacy as well as specific issues women face in attaining and retaining leadership positions. Through readings, discussions, and projects that critically examine images and gender stereotypes of women leaders, the course is designed to give students practical skills they can use to be better communicators and leaders. Spring.

LDRS 394 Leadership and Storytelling credit(s): 3

Course repeatable for 6 credit.

This course offers students an opportunity to explore the growing synergy between two research areas: leadership, and narrative or story. Spring.

Restriction(s):

Must not be in the following Major(s):

LDRS 395 Service and Leadership credit(s): 1-3

Course repeatable for 9 credit.

In this course we will explore the links between community service, social action (activism) and public leadership, which we define as making a difference in one's community, organization, government, state and/or nation. The goal of the course is to bring students to a deeper understanding of their role as servant leaders in the communities they not only find themselves living and working in, but also those they wish to affect in humane ways. Spring.

Restriction(s):

Must not be in the following Major(s):

LDRS 396 Leadership and Social Change credit(s): 3

This course provides critical study and preparation for the East LA spring break immersion experience by exploring contemporary expressions of kinship, leadership, and social change. Readings, reflections, and assignments explore societal and structural issues related to homelessness, mass incarceration, gang violence and immigration reform. Students will understand and practice the skills and vision necessary to promote community engagement and social change both locally and in East LA. Students must go to East LA Spring Break, open to all undergraduates by application.

Fulfills the following degree requirement(s): Leadership elective

LDRS 397 Leadership and Film credit(s): 3

The course initiates a thoughtful consideration of the nature of leadership as depicted in film. Spring.

Restriction(s):

Must not be in the following Major(s):

LDRS 450 Contemporary Issues in Leadership credit(s): 3

Through exploring contemporary issues in leadership, this course is designed to be a capstone experience of integrating leadership knowledge and skills. This course will provide students with an understanding of the principles of Servant Leadership (Greenleaf, 1970, 1998, 2001) and an exploration of adaptive leadership theory and practice (Heifetz, 1994, 2001, 2009). These two leadership theories in tandem provide a uniquely Jesuit approach to leadership, with servant leadership cultivating the heart, while adaptive leadership provides an avenue for the head and hands. A focal point of the course is on helping students begin to develop a vision of their vocation as leaders by participating in real-time, case-in-point examples of adaptive leadership. As a capstone to the Minor in Leadership Studies, students will practice their leadership skills and knowledge in a legacy project and construct a learning portfolio from their coursework. Fall

Restriction(s):

Must be in the following Major(s): Leadership Studies

Prerequisite(s): LDRS 200

LDRS 489 Leadership Seminar **credit(s): 1-3**

Course repeatable 20 time.

Topic of course to be determined by department and instructor.

LDRS 490 Independent Study **credit(s): 1-3**

Course repeatable for 6 credit.

Course content to be determined by the instructor.

LDRS 497 Leadership Internship **credit(s): 1 or 3**

Course repeatable for 12 credit.

This course is designed to give students a hands-on experience in leadership. The course affords students the opportunity to use the skills and knowledge learned through the CLP in real-world internship context. The course materials cover theories behind experiential education, mentorship and internship education. The class time allow opportunity to process and reflect on the student' internship experience.

Restriction(s):

Must not be in the following Major(s): Leadership Studies

Must be the following Class(es): Senior

The Institute for Informatics and Applied Technology

The Institute

Director: Shanchieh (Jay) Yan

The Pacific Northwest has a long history of technological advancement fueled by creativity and passion. The past century's successes — from Boeing to Nike, Microsoft to Amazon, and more — put the region on the map as the global leader in high-tech innovation. A generous gift from the David and Cathleen Reisenauer family to support the development of a new Institute for Informatics and Applied Technology ensures that when the history of the next 100 years is written, Gonzaga University will be a major part of the story.

The Institute brings together faculty expertise from across campus to collaborate with and support local industries, government agencies, health providers, and institutional partners such as the University of Washington School of Medicine.

Through the Institute, Gonzaga seeks to harness “big data” and artificial intelligence (AI), make advances in cybersecurity, and inspire new knowledge catalyzing innovation in technology, healthcare, global supply chain, and other domains.

The Institute will ultimately offer new undergraduate and graduate degree programs as well as certificates and executive educational opportunities in such areas as informatics, cybersecurity, data science, data analytics, and IT management.

Data Science

Coordinator: Logan Axon

B.S. in Data Science: 113 credits

Lower Division

CPSC 121 Computer Science I	3 credits
CPSC 122 Computer Science II	3 credits
CPSC 222 Intro to Data Science	3 credits
CPSC 223 Algorithms & Data Structures	3 credits
CPSC 224 Software Development	3 credits
MATH 157 Calculus I	4 credits
MATH 231 Discrete Structures	3 credits
MATH 258 Calculus II	4 credits
One of the following Research Methods courses:	3 credits
COMM 285 Analyzing Practices	
PSYC 206 Scientific Principles of Psychology	
SOC 204 Research Methods	

Upper Division

CPSC 321 Database Management Sys	3 credits
CPSC 322 Data Science Algorithms	3 credits
One of the following two courses:	3 credits
CPSC 332 Web Development	
CPSC 334 Linux & Dev Ops	
CPSC 323 ML and Intelligent Sys	3 credits
CPSC 450 Design & Analysis of Alg.	3 credits
CPSC 475 Speech & NLP	3 credits
CPSC 481 Data Analytics & Communication	3 credits
CPSC 482 Data-Intensive Systems	3 credits
CPSC 432 (CIS) Data & Algorithm Ethics	3 credits
CPSC 483 Data Science Capstone	3 credits
MATH 321 Statistics for Experiment	3 credits
One of the following two courses:	3 credits
MATH 335 Applied Linear Algebra	
MATH 339 Linear Algebra	
One of the following five courses:	3-4 credits
MATH 259 Calculus and Analytic Geometry III	
MATH 328 Operations Research	
MATH 425 Applied Statistical Models	
MATH 426 Experimental Design	
ECON 355 Regression Analysis	

One of the following six course pairs:

3 credits

MKTG 310/MKTG 410 Principles of Marketing / Digital Marketing
ECON 201/ECON 202 Microeconomics / Macroeconomics
CRIM 101/CRIM 312 Crime, Social Control, Justice / Criminological
Theories
ENVS 101/ENVS 320 Introduction to Environmental Studies
/ Economics of Environmental Protection
BFIN 320/BFIN 322 Principles of Finance / Intermediate Finance
INMD 101/PRLS 260 Media Literacy / Public Relations Principles

Community-Engaged Learning

In accordance with its Jesuit mission to educate men and women for others, community-engaged learning (also referred to as service-learning) at Gonzaga University encourages students to deepen their understanding of community and social justice through exploring links between service and academic work. Community-engaged learning has been incorporated into Gonzaga courses for over twenty-five years. One of the nation's most impressive movements in higher education, community-engaged learning unites classroom theory and rigor with direct experience and thoughtful action in the larger civic community.

Over 100 community-engaged learning courses sections are offered to Gonzaga students every year. Community-engaged learning courses can be found in almost every academic department and the Law School. Departments including business, philosophy, psychology, religious studies, education and others, are committed to integrating community service as an instrument to achieve academic goals. A typical community-engaged learning course involves 20 hours of outside service that reinforces the course content. Students interested in taking community-engaged learning courses can find them on ZAGWEB through the "community engaged learning" attribute search.

Academic community-engaged learning differs from community service in that the service is performed in the context of an academic course. This researched high impact teaching and learning practice contributes to success both inside and outside of the classroom. The students' community-based experiences enhance and build upon the learning that is being done in the classroom. These experiences both enhance student learning, as well as help to develop an ethic of service. Students are asked to reflect upon their experiences and to apply these insights to the course material.

Gonzaga's community-engaged learning program is managed by the Center for Community Engagement with guidance from the faculty-led Community Engaged Learning Advisory Board (CELAB). The Center provides resources for students and faculty, placements in the community, and a network of campus and community connections.

English Language Center

Director: Nicholas E. David

Instructional Staff: Cade Christensen, Lisa Cox, Sara Spaner

Since 1978, the University's English Language Center (ELC) has addressed the needs of multilingual students whose primary native language is not English. Gonzaga's ELC has served nearly 10,000 international students, introducing them to academic language and culture, higher education in the United States, while providing opportunities for intercultural exchanges with students from the U.S. and more than 70 other nations. The English Language Center encompasses the Intensive English Program, Gonzaga Global, Specialized Programs, Academic Support and testing, and an affiliation with the MA-TESL Program.

Intensive English Program (IEP): The ELC offers year-round intensive classes in 10 levels of instruction in English as a Second Language (ESL). These courses are designed to meet the needs of international students seeking undergraduate and graduate studies, as well as those of international professionals in improving their English language ability. Instructional policies and program guidelines of the Gonzaga University ESL Program are in accordance with the Commission on English Language Program Accreditation (CEA), the national professional organization in this field.

Incoming Intensive English Program students are required to take the ELC Placement test in order to enroll in IEP courses. IEP courses in levels 1-5 earn ELCT credit.

ELC Undergraduate/Gonzaga Global courses: ELC Undergraduate courses support international and/or multilingual students with the linguistic and cultural adjustment to higher education in the U.S. through academic English and culture courses. These courses are English for Academic Purposes (EAP) courses that develop linguistic skills that support student success in freshman and Core classes and are open to all international and/or multilingual students and scholars with permission from the Director. All ELC undergraduate courses carry elective credits that apply toward the total 128 semester credits required to graduate.

English Placement Test: Selected incoming international students take the English Placement Test to verify required courses and/or recommend optional courses. All incoming international students who are not exempted of English language requirements during the admission process are required to take the placement test. Permission to enroll in all ELCT undergraduate courses is to be obtained from the Director.

Gonzaga Global: For students who are ready to pursue undergraduate studies, but do not currently meet Gonzaga's English proficiency requirements, admission to Gonzaga Global offers integrated academic language and culture courses that support and enrich a student's undergraduate studies. Students apply for undergraduate and graduate admission to Gonzaga through the Gonzaga Global Program. Please see Gonzaga Global - <https://global.gonzaga.edu>.

ELCT courses + Multilingual (MLC) sections: ELCT 110 class is linked to MLC sections of the Gonzaga Core classes, COMM 100. These classes encourage the global engagement and intercultural competence of both domestic and international students. International students are placed into the ELC courses and the linked Multilingual (MLC) sections through freshman enrollment, Gonzaga Global, or their advisor upon approval by the Director. International students who are not required to take these courses may indicate interest through Gonzaga's Freshman Survey or by working with their Academic Advisor.

Specialized Programs: In addition to the academic ESL Program, the ELC offers short-term Specialized Programs for contracted groups of students, faculty and international visitors, including English as a Medium of Instruction, ESL Teacher Training, and Intensive English Language Programs.

Academic Support and Testing: The ELC conducts English Placement testing for all incoming international students as well as testing and services for all multilingual students or departments at Gonzaga that require or desire focused academic English language and culture instruction or support.

ELC and MA-TESL Program Affiliation: The ELC is affiliated with the following programs in the School of Education: Master of Arts degree in Teaching English as a Second Language (MA-TESL); Teaching English to Speakers of Other Languages (TESOL) Certificate; and ELL endorsement. This important affiliation between programs includes shared faculty, curricular and programmatic integration, and opportunities for diverse student groups to collaborate in creative ways.

For more information about the English Language Center, visit www.gonzaga.edu/elc, or call 509-313-6562.

Courses:

ELCT 016	Intro to Listening & Speaking	credit(s): 6
	Course repeatable 1 time.	
ELCT 018	Intro to Grammar Support	credit(s): 6
	Course repeatable 1 time.	
ELCT 019	Intro to Reading and Writing	credit(s): 6
	Course repeatable 1 time.	
ELCT 026	Basic Listening and Speaking	credit(s): 6
	Course repeatable 1 time.	
ELCT 028	Basic Grammar Support	credit(s): 6
ELCT 029	Basic Reading & Writing	credit(s): 6
ELCT 036	Intermediate Oral Comm	credit(s): 6
ELCT 038	Intermediate Grammar Support	credit(s): 6
ELCT 039	Inter Reading & Writing	credit(s): 6
ELCT 045	Advanced Writing	credit(s): 3

ELCT 046	Advanced Oral Comm	credit(s): 6
ELCT 048	Advanced Grammar Support	credit(s): 3
ELCT 049	Advanced Reading & Writing	credit(s): 6
ELCT 055	Academic Writing	credit(s): 3
ELCT 056	Communications Seminar	credit(s): 6
ELCT 058	Language Awareness	credit(s): 3
ELCT 059	Academic Seminar	credit(s): 6
ELCT 099	English Language Workshop	credit(s): 0-20
ELCT 107	Community Engaged Learning	credit(s): 0
ELCT 108	Language Awareness	credit(s): 2
ELCT 109	Academic Seminar	credit(s): 6

This class provides a strong base of integrated skills that support success in American academic and social contexts. Course objectives focus on reading broadly for varied purposes and from a variety of sources; engaging in the critical reading-into-writing process; composing texts in diverse registers and voices; engaging in short as well as more sustained recursive research; and most importantly, participating actively and sharing and integrating world perspectives into larger academic conversations.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): ELCT 049, minimum grade: C

ELCT 110 Communication Seminar **credit(s): 3**

Students will improve their ability to communicate orally and listen effectively in a variety of academic and social situations. Students will cultivate an understanding of interpersonal, intercultural, and small-group communication, and they will learn to apply the necessary critical thinking, reasoning, and research skills to compose and present effective presentations. This course will critically examine the readings and assignments of COMM 100.

Corequisite(s): COMM 100

Prerequisite(s): ELCT 046, minimum grade: C

ELCT 111 Global Bridge University Prep **credit(s): 9**

ELCT 120 Global Bridge II **credit(s): 3**

Students will identify and analyze assumptions, beliefs, values and rhetorical styles in western academic culture and their own cultures. They will understand, explore and apply the underlying concepts, structures and methods, and discipline specific terminology necessary to be successful in Philosophy 101: Reasoning. Students will also develop strategies that will enable them to engage with texts, lead and participate in meaningful ways in academic discussions, and produce increasingly sophisticated written responses. ELCT 120 is designed specifically for Gonzaga international students concurrently enrolled in PHIL 101.

Corequisite(s): PHIL 101

ELCT 121 Multilingual Student Writing **credit(s): 3**

This class prepares multilingual students and/or non-native speakers of English for successful participation in the academic life at a U.S. American university with a focus on critical written expression. The course will address American university writing expectations, but more importantly consider how diverse personal experiences, cultural perspectives, values and norms shape the formation and understanding of knowledge and choices as writers and

scholars. Students will use a variety of texts and research methods to effectively support and explore a sustained critical analysis that takes into account contextual influences.

Fulfills the following degree requirement(s): Core: Writing Enriched

Prerequisite(s): ELCT 109, minimum grade: B-

ELCT 180 Special Topics **credit(s): 1-6**

Course repeatable for 6 credit.

Topic to be determined by instructor.

ELCT 181 Special Topics II **credit(s): 1-6**

Course repeatable for 6 credit.

ELCT 182 Special Topics III **credit(s): 1-6**

Course repeatable for 6 credit.

ELCT 185 ESL pre-test Registration **credit(s): 5-21**

Gonzaga in Florence

Dean: Jason Houston, Ph.D.

Expand your global perspective. Immerse yourself in Italian culture. Make lifelong, life-changing memories. Study away with Gonzaga in Florence and let yourself be inspired by the people, places, language, and history you'll come to love.

Gonzaga in Florence is the flagship global destination of Gonzaga University. Established in 1963, our school offers comprehensive academic coursework with a particular emphasis on immersive learning. Participants come from Gonzaga as well as several approved, U.S. partner institutions. For over 60 years, Gonzaga in Florence has led the way among American universities in Italy, and continues to play a key role in study away for both students and faculty.

Florence stands proud as a cultural capital of the world- the intellectual and artistic center of the Middle Ages and the Renaissance. The first Zag to study away in Florence was St. Aloysius Gonzaga, who lived here as a student in the 16th century. Today, Florence's many museums, churches and monuments give students a unique frame of reference with which to understand the historic influences that have shaped European civilization. Florence firmly holds its place as one of Europe's first global cities, drawing students, artists, and intellectuals for over 500 years.

Gonzaga in Florence is located in the center of Florence, just a stone's throw from the *Duomo* and looks onto the *Giardino dei Semplici*, a 16th-century garden created by the Medici family. We work and study just steps away from the San Marco monastery, filled with Fra Angelico's priceless frescoes, and the Galleria dell'Accademia, where Michelangelo's regal David stands.

Our *palazzo*, the Mozilo Center, provides the space and tools we need for intensive learning and activities. Faculty teach with updated technology; Wi-Fi is robust throughout the building. The Martin Library collection contains more than 10,000 volumes in a dedicated space and reading room. For research, students can connect to the Foley Library resources and databases on Gonzaga University's campus in Spokane. A student lounge and basic fitness center are located on the lower level. The newly renovated grounds provide outdoor classroom, study, and recreation spaces in every season.

Consider a semester or year with us at Gonzaga in Florence. We can't wait to welcome you to your home away from home in Italy.

For more information about Gonzaga in Florence, visit www.gonzaga.edu/gif.

Graduate Programs

Gonzaga University offers graduate degree programs in the following academic areas:

College of Arts and Sciences

- Master of Arts in Philosophy
- Master of Arts in Theology and Leadership

School of Business Administration

- Master of Accountancy
- Master of Accountancy/Juris Doctor
- Master of Business Administration
- Master of Business Administration in American Indian Entrepreneurship
- Master of Business Administration/Bachelor of Science in Engineering
- Master of Business Administration/Juris Doctor
- Master of Science in Business Analytics
- Master of Science in Taxation

School of Education

- Master of Arts in Sports and Athletic Administration
- Master of Arts in Clinical Mental Health Counseling
- Master of Arts in Marriage and Family Counseling
- Master of Arts in School Counseling
- Master of Arts in Teaching English to Speakers of Other Languages
- Master of Counselling (site based)
- Master of Education in Educational Leadership
- Master of Education in Special Education
- Master of Teaching
- Education Specialist in School Psychology
- Doctor of Educational Leadership
- Doctorate in School Psychology

School of Engineering and Applied Science

- Master of Engineering in Transmission and Distribution Engineering
- Master of Engineering Management

School of Health Sciences

- Master of Science in Nursing
- Master of Public Health
- Doctor of Nurse Anesthesia Practice
- Doctor of Nursing Practice

Institute for Informatics and Applied Technology

- Master of Science in Data Science
- Master of Science in Cybersecurity

School of Leadership Studies

- Master of Arts in Communication and Leadership Studies
- Master of Arts in Organizational Leadership
- Doctor of Philosophy in Leadership Studies

Although graduate study involves a quantitative extension of knowledge, it is not a mere continuation of undergraduate or professional training. Intellectual achievement at the graduate level is different in kind, for the graduate student is expected to deepen and master knowledge by a personal and independent grasp of it in its sources and evidence, in its basic meanings and interrelationships.

In addition to offering the previously noted graduate degrees, the Provost & Senior Vice President may periodically approve a new or interdisciplinary graduate degree within an academic specialty. For detailed information on any graduate program, such as curriculum, tuition and admission procedures, students should consult the graduate catalog and contact the academic area responsible for that specific graduate program.

Health Professions Pathways Program

Contact: Katherine Brackmann

The Health Professions Pathways Program (H3P) is a non-academic program that provides comprehensive support for students from all majors interested in pursuing graduate study and a future career in the health professions (Dentistry, Medicine, Occupational Therapy, Optometry, Pharmacy, Physical Therapy, Physician Assistant, Veterinary Medicine, and other health professions). The Health Professions Pathways Program works collaboratively with various academic departments, faculty advisors, and offices such as Career & Professional Development and Academic Advising & Assistance to ensure that students have the appropriate advising for their academic, co-curricular, and application needs.

The Health Professions Pathways Program (H3P) offers numerous resources, programs, and services including 1-on-1 appointments and workshops, covering a wide range of topics from career exploration to mock interviews. Additional support includes:

- Mentorship opportunities within the Gonzaga pre-health undergraduate and alumni networks
- Recommendations for students and faculty regarding pre-requisite coursework
- Resources for preparing for and applying to health professions graduate programs
- Advising on how to explore and gain experience in the healthcare field

Along with the Health Profession Pathways Program, students are encouraged to engage and find support with one of the many pre-health or science-related student organizations on campus including the Health Sciences Club, Human Physiology Club, Pre-Dental Club, Pre-PA Club, Gonzaga Women in Medicine, Society for Advancement of Chicanos/Hispanics and Native Americans in Science, and Health Equity Circle.

Academic Preparation

Most health professions graduate programs do not require specific undergraduate majors. Students are encouraged to choose a major that they are genuinely interested in studying. This will increase the likelihood of academic success, a big factor in graduate school admissions.

Health professions programs each determine their own admissions prerequisite coursework, but most require a strong foundation in the basic sciences along with coursework in the humanities, which can be found in the University Core Curriculum. In consultation with their academic advisors, students can expect to complete a basic science curriculum that includes Biology, Chemistry, Physics, and Math. Additional science courses may be necessary based on specific program requirements.

Co-Curricular Preparation

Admission to health professions graduate programs is competitive. Schools look for candidates that have distinguished themselves in their academics, leadership, and service and gained the skills necessary to be effective members of their professions. Health professions graduate programs assess cognitive abilities primarily through GPA and standardized admission tests. Students have the opportunity to demonstrate a commitment to their chosen field and highlight personal attributes and experiences by submitting an application, writing several essay questions, requesting letters of recommendation, and participating in interviews. Hands-on experience in healthcare settings is vital to both the preparation and admission processes. This clinical experience exposes students to the complex duties expected of today's healthcare professionals and enables them to make informed career decisions.

Application Resources

Students may take the following course to assist them in their application to health professions graduate programs:

UNIV 410 Health Professions Prep credit(s): 1

This 1-credit course is designed for Gonzaga students who are intending to apply health professions graduate programs, including dental, medical, occupational therapy, optometry, pharmacy, physical therapy, physician assistant, public health, and veterinary schools. Topics covered include the application process, personal statements, interview skills, school research and selection, social determinants of health, and more. Class time will include lecture/presentation, reflective activities, small group discussions, and guest speakers such as current graduate students, healthcare providers, and/or admissions representatives. Offered Fall and Spring.

For further information on the Health Professions Pathways Program, or preparation for health professions careers, visit www.gonzaga.edu/h3p or email h3p@gonzaga.edu.

Hogan Entrepreneurial Leadership Program

Director: Dan Stewart, Ph.D.

The Hogan Entrepreneurial Leadership Program is a three-year undergraduate minor that immerses students in the fundamental concepts and practices of creating new enterprises in the private and public sectors. Students complete the Entrepreneurial Leadership minor in conjunction with their chosen major in any academic field, including business, engineering, computer science, biology, chemistry, math, education, and the liberal arts. The program has four distinguishing features:

1. An honors program model that attracts outstanding students.
2. Curriculum in the student's major and in entrepreneurial leadership
3. Co-curriculum that immerses students in entrepreneurial organizations and practices through guest lecturers, internships, site visits, mentor relationships, and a student-managed consulting lab
4. Emphasis on Jesuit educational ideals of ethical leadership and commitment to the common good

Admission to the Hogan Entrepreneurial Leadership Program is competitive and based on the student's grade point average, and demonstrated leadership, creativity, and community service.

Requirements

Students in the Hogan Entrepreneurial Leadership Program complete the requirements for a Bachelors degree in business, engineering, the arts and sciences, professional studies, or education, along with a minor in Entrepreneurial Leadership. Students must satisfy the University and college core curricula relevant to their major.

The courses listed below constitute the minor in Entrepreneurial Leadership for students majoring in arts and sciences, business administration or accounting, education, and engineering. The program is designed flexibly so that students with any major can graduate in four years. Waivers and substitutions for department requirements may be granted to meet special academic needs. In addition, the University waives the fees for credits in excess of the usual eighteen-credit per semester limit for qualified students, up to 21 hours per semester.

An approved internship is required for completion of the minor in Entrepreneurial Leadership. Approved internships will consist of a minimum work requirement of 180 hours, and may be

completed in any field and at any time, pending instructor approval. This requirement is fulfilled via the ENTR 497 course, which may be taken for credit or as a zero-credit option.

In addition to the Hogan ENTR courses, Hogan students must also complete coursework in accounting and economics. This coursework depends on the major field of study. These courses may be completed at any time prior to second semester of the student's junior year, including the pre-Hogan freshman year.

The following course requirements for the Entrepreneurial Leadership minor amount to 18 credit hours for business administration majors and up to 24 credit hours for all other majors, exclusive of double-counted or shared course content.

Second Year

ENTR 201 Idea to Solution	3 credits
ENTR 202 Solution to Execution	3 credits

Third Year

ENTR 301 Strategic Leadership	3 credits
ENTR 302 Strategic Thinking	3 credits

Fourth Year

ENTR 401 Senior Incubation*	3 credits
ENTR 402 Ethics and Moral Leadership	3 credits

*** Engineering majors fulfill this requirement with Senior Design.**

Co-Requisite courses (may be completed at any time during years 1-2)

Arts and Sciences and Engineering Students:

One of the following two Accounting courses:	3 credits
ACCT 260 Principles of Accounting I ¹	
ACCT 263 Accounting Analysis	

One of the following three Microeconomics courses:	3 credits
ECON 200 Economic Analysis	
ECON 270H Honors Economics	
ECON 201 Microeconomics ¹	

Business Administration Students:

ACCT 260 Principles of Accounting I ¹	3 credits
ACCT 261 Principles of Accounting II ¹	3 credits
ECON 201 Microeconomics ¹	3 credits

¹ satisfies Business Administration common curriculum requirements

To maintain good standing in the Hogan Program, students must maintain a 3.0 or higher grade point average (GPA) both overall and in their Hogan (ENTR) courses.

In addition to the course work above, Entrepreneurial Leadership students participate in a variety of co-curricular activities introducing them to entrepreneurial organizations, leaders, and practices.

Courses:

ENTR 201 Idea to Solution credit(s): 3

Every entrepreneur begins at the same starting point - the idea. In this course, students will start with an idea and build it to a potential solution. Major topics will include: identifying opportunities, creating value, identifying and connecting with the customer, understanding markets and the competition, measuring return on investment, and understanding the purpose of the venture.

Restriction(s):

Must not be in the following College/School(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Must be the following Class(es): Sophomore

ENTR 202 Solution to Execution credit(s): 3

A solution is only valuable if you can make it a reality. In this course, students will take a potential solution and build in the processes and structure required to define and execute it. Major topics will include: business models, feasibility analysis, forecasting demand, budgeting and financing, and organizational structure.

Restriction(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Prerequisite(s): ENTR 201

ENTR 301 Strategic Leadership credit(s): 3

Success as an entrepreneur requires the ability to get people behind your idea and your organization. In this course, students will explore what leadership means, how to be a good leader, and how to inspire trust and commitment in others. Major topics will include: team dynamics, managing people, trust, leading by example, managing projects, shared goals, and setting expectations.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s): Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): ENTR 201 and ENTR 202

ENTR 302 Strategic Thinking credit(s): 3

Many of the challenges of starting a venture come after it has begun. In this course, students will learn how to create or build a venture that is sustainable, scalable, and provides lasting

value to their communities. Major topics will include: strategic analysis, venture scaling, goal-setting, measuring success, diversification and growth, and exit strategies.

Restriction(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Prerequisite(s): ENTR 201 and ENTR 202

ENTR 401 Senior Incubation

credit(s): 3

Entrepreneurship is an active experience- we learn best by doing. In this course, students will focus on integrating the entrepreneurial tools they have developed in the context of a venture launch. Major topics will include: enterprise launch, legal issues, financing, investor relationships, and negotiation.

Restriction(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Prerequisite(s): ENTR 201 and ENTR 201

ENTR 402 Ethic and Moral Leadership

credit(s): 3

The value we create as entrepreneurs is more than economic. In this course, students will explore how to create ventures that provide lasting value to society and serve as examples of Jesuit and humanistic leadership. Major topics will include: ethical and moral development, Magis, the responsibility of leaders, and building an ethical organization.

Fulfills the following degree requirement(s): Core: Social Justice, Core: Core Integration Seminar

Restriction(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Prerequisite(s): ENTR 201 and ENTR 202 and ENTR 301

ENTR 490 Independent Study

credit(s): 1-4

Course repeatable 3 time.

Course content to be determined by the instructor.

ENTR 495 New Venture Lab

credit(s): 1-3

Course repeatable for 3 credit.

This experiential course provides hands-on experience in developing ideas for new commercial and/or social enterprises. Students work on teams to develop their own or other entrepreneurs' ideas. Projects typically include feasibility analysis, market research, and business planning. Students receive one credit for each 60 hours worked in the New Venture Lab. Course requirements include keeping a journal, completing assigned project tasks, and submitting a final report detailing learning outcomes. Open to any major at the university (for Hogan Program students and those not in the Hogan Program).

Restriction(s):

Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Must not be the following Class(es): Freshman, Sophomore

ENTR 497 Internship**credit(s): 0-3**

Course repeatable for 12 credit.

An approved internship is required for completion of the concentration in entrepreneurial leadership. The ideal internship allows the student to apply concepts and analytical tools from the curriculum in an entrepreneurial context. Approved internships consist of a minimum work requirement of 180 hours and completion of a written report summarizing the learning experience. Instructor approval required.

Restriction(s):

Must not be in the following College/School(s):

Must not be in the following Major(s): Must be in the following Major(s): Hogan Entrepreneurial Ldrshp, Hogan Entrepreneurial Ldrshp

Must be the following Class(es): Junior, Senior

The Honors Program

Interim Directors: Chris Stevens, Hays Whitlach

Associate Director: Karen Petruska

The Honors Program at Gonzaga is an energetic community of students and scholars dedicated to flourishing in our new and changing world. The program provides students with innovative and immersive educational experiences designed to empower them to lead lives of meaning, service, and leadership into the future.

Academics

The Honors educational experience begins with a three-day immersion experience, in which students meet each other and begin to bond as a cohort, as well as learn to orient themselves in Spokane, at Gonzaga, and as Honors students. Students then take the Honors First Year Block, a rich, integrated, and interdisciplinary learning experience shared by all students entering the Honors program. Students are introduced to the complex structure and problems of contemporary society while also honing the foundational academic skills of critical reasoning, analysis, and communication. Ideas and experiences are shared across collaboratively-taught, student-centered, and interdisciplinary courses.

Throughout their time at Gonzaga, Honors students have reserved seats in Honors Designated courses: innovative and exciting courses taught by award-winning faculty. In addition, Honors Colloquia are designed for Honors students; these courses are collaboratively taught and interdisciplinary examinations of complex, timely, and urgent topics facing our global society. Examples of topics covered in Honors Colloquia are: identity formation and identity politics, race and representation, climate change, educational policy and advocacy, poverty, and homelessness.

Finally, Honors students complete their undergraduate career with the Honors capstone experience. Students imagine and then design a personalized project that both integrates their undergraduate learning and allows them experience which will meaningfully contribute to their future goals. These projects may take the form of researched, academic writing, an internship, creative inquiry – whatever is best suited to the individual students interests and goals.

The Honors program has a wide experience with a number of study abroad programs catering to various fields of interest, including engineering, the physical sciences, and business. Honors students are strongly encouraged to spend a semester abroad.

Student Development

One of the most important elements of the Honors program is the community, friendship, and mentorship it provides. Dillon Hall is the home of the Honors Living-Learning Community, providing a quiet, library-style study lounge, a lounge for socializing and relaxing, a kitchen, recreational equipment, academic space, and access to Honors Faculty. Throughout the year, the program hosts many events, including social and community building events, student sponsored programming, and opportunities for intellectual engagement. The all-program retreat in the fall, Christmas party, Honors Formal Dance, and Senior banquet are always highlights of the academic year!

Admission

Students can apply for the Honors program as they apply for admission to Gonzaga. A few students are also accepted at the end of their first year at Gonzaga. Acceptance is based not only on evidence of previous academic achievement, but also on promise of future success. The application process values extra-curricular interests, intellectual curiosity and engagement, and ability to bring diverse perspectives and experiences to the program. For more information, one can contact the Honors Program office at 509-313-6547.

University Core Requirements

Honors students are responsible for completing the following University Core Requirements either through an Honors course or through the general catalogue: Literature, Christian and Catholic Traditions, World/Comparative Religion, Fine Arts, Scientific Inquiry, History, Math, Human Nature, Ethics. The completion of these course requirements with an HONS course subject will fulfill both the Honors program requirement and the University core requirement towards the completion of a students degree.

Honors Program Requirements

Students must take the following courses to complete their Honors degree

HONS 100 Multi-modal Communications	3 credits
HONS 101 Honors Reasoning	3 credits
HONS 193 First Year Seminar	3 credits
HONS 432 Honors Core Integration Seminar	3 credits
HONS 499 Honors Senior Project	3 credits

In addition, students must complete five Honors Designated courses. These courses are cross-listed with regular University courses, and can fulfill core or major requirements.

HONS designated courses	15-16 credits
Science Inquiry (3 credits)	
HONS 104 Science Inquiry (2-3 credits)	
HONS 104L Science Inquiry Lab (1 credit)	
HONS 201 Honors Human Nature (3 credits)	
HONS 217 Honors Special Topics: Math (3 credits)	
HONS 220 Honors Christian Catholic Traditions (3 credits)	
HONS 221 Honor World or Global Religion (3 credits)	
HONS 241 Honors World Civilization (3 credits)	
HONS 243 Honors United States History (3 credits)	
HONS 247 Honors Special Topics History (4 credits)	
HONS 267 Honors Special Topics in Art (3 credits)	
HONS 287 Honors Special Topics in Literature (3 credits)	
HONS 301 Honors Ethics (3 credits)	

Honors students must take two Honors colloquia. Course numbers may be repeated for credit.

Honors Colloquia	6 credits
HONS 290 Honors Colloquium (3 credits)	
HONS 390 Honors Colloquium (3 credits)	

In order to remain an Honors student in good standing, a student must:

1. Complete the Honors First Year Block (HONS 193, HONS 100, and PHIL 101H) or the transfer equivalent within one academic year of joining the program.
2. Must either complete 6 credit hours of HONS courses (or courses with the Honors Designation) per academic year, or be within 12 credit hours of completing the Honors requirements. Exceptions will be made for students studying abroad during the academic year.
3. Must achieve a cumulative GPA of 3.3 at the time of graduation and good academic standing throughout their tenure at Gonzaga (as defined by the undergraduate catalogue). Students who drop below a 3.0 for two consecutive semesters will be removed from the program (subject to Director review).

Students who fail to meet these requirements will be removed from the program and will no longer qualify for the Honors scholarship.

Courses:

HONS 100 Multi-modal Communications **credit(s): 3**

Fall, annually.

Fulfills the following degree requirement(s): Core: Communication and Speech, Core: Writing, Core: Writing Enriched

HONS 104 Science Inquiry **credit(s): 2 or 3**

This lecture and laboratory course content will be determined by the instructor to meet the learning objectives of the Scientific Inquiry requirement of the University Core. Fall and Spring.

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): HONS 104L

HONS 0 Science Inquiry Lab **credit(s): 1**

Taken concurrently with HONS 104.

Fulfills the following degree requirement(s): Core: Science Inquiry

Corequisite(s): HONS 104

HONS 107 Honors Science **credit(s): 3**

Fulfills the following degree requirement(s): HONS - Science Inquiry

HONS 157 Calculus-Analytic Geometry I **credit(s): 4**

An introduction to calculus for engineering, science and mathematics students, with an emphasis on conceptual understanding, problem solving, and modeling. Topics covered include: limits, continuity, derivatives of algebraic, trigonometric, and transcendental functions, applications of the derivative including optimization problems and linear approximations, antiderivatives, introduction to the definite integral, and the Fundamental Theorem of Calculus. Fall and Spring.

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Mathematics

Equivalent(s): MATH 157

Prerequisite(s): MATH 147, minimum grade: C

HONS 180 Honors Intro to Literature **credit(s): 3**

Fulfills the following degree requirement(s): Core: Literature

HONS 193 FYS: **credit(s): 3**

The First-Year Seminar (FYS) introduces new Gonzaga students to the University, the Core Curriculum, and Gonzaga's Jesuit mission and heritage. While the seminars will be taught by faculty with expertise in particular disciplines, topics will be addressed in a way that illustrates approaches and methods of different academic disciplines. The seminar format of the course highlights the participatory character of university life, emphasizing that learning is an active, collegial process.

Fulfills the following degree requirement(s): Core: Social Justice, Core: First Year Seminar, Core: Social/Behavioral Sci

HONS 201 Honors Human Nature **credit(s): 3**

Philosophical study of human nature, the human condition, the meaning and value of human life, and the human relationship to ultimate reality, with attention to such issues as the nature

and possible existence of the soul, the relation between body and mind, belief and knowledge, freedom vs. determinism, and the possibility of human immortality. Fall. For Honors students.

Fulfills the following degree requirement(s): HONS - Honors designation, HONS - PHIL 201H, Core: Phil of Human Nature

HONS 207 Honors Topics in Science credit(s): 3-5

Course repeatable for 9 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

Corequisite(s): BIOL 207L

HONS 0 Honors Topics Sci Lab credit(s): 0-1

Corequisite(s): HONS 207

HONS 217 Honors Spec Top: Math credit(s): 1-4

See course description for cross listed course.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 219 Special Topics: SEAS credit(s): 1-4

HONS 220 Honors Christian Catholic Trad credit(s): 1-3

See course description for cross listed course.

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Christian or Catholic

HONS 221 Honor World or Global Religion credit(s): 3

Course repeatable

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Global Studies, Core: World or Comparative Rel

HONS 222 African Religious Traditions credit(s): 3

Introduction to various forms of religiosity in sub-Saharan Africa. Through the study of religion, this class prompts students to better understand various aspects of African cultures by dismantling stereotypes and assumptions that have long characterized the study of religions in Africa. Offered every semester.

Fulfills the following degree requirement(s): RELI - Reli, Cult & Soc 51-74, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 256

HONS 223 Culture Ethics credit(s): 1-3

Fulfills the following degree requirement(s): HONS - Honors designation, RELI - Reli, Cult & Soc 51-74, RELI - Religious Ethics 76-84

HONS 227 Hebrew Bible-Ancient Near East credit(s): 3

A comparative approach to human-human, human-divine, and divine-divine relationships in the Hebrew Bible and the ancient Near East, focusing on the human relational context and commitments towards social justice among warring cultures. Building intercultural competence, this course carries a global studies emphasis. Offered every year.

Fulfills the following degree requirement(s): RELI - Sacred Texts 01-24, Core: Social Justice, Core: Global Studies, Core: World or Comparative Rel

Equivalent(s): RELI 206

HONS 237 Topics in Sociology credit(s): 1-4

Course repeatable for 6 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 238 Topics in Political Science **credit(s): 1-4**
 Course repeatable for 9 credit.
Fulfills the following degree requirement(s): HONS - Honors designation

HONS 241 Foundations of the West **credit(s): 3**
 A survey of the origins of western civilization in the Near East; classical Greek and Roman civilizations; and developments in Europe to 1648.
Fulfills the following degree requirement(s): HONS - Honors designation, Core: History
Equivalent(s): HIST 101

HONS 242 The West and the World **credit(s): 3**
Fulfills the following degree requirement(s): HONS - Honors designation, Core: History
Equivalent(s): HIST 102

HONS 243 Asian&PacificIslanderAmerHist **credit(s): 3**
 Course repeatable
Fulfills the following degree requirement(s): Core: History

HONS 244 Honors US History **credit(s): 3**
 Course repeatable
Fulfills the following degree requirement(s): HONS - Honors designation, Core: History

HONS 247 Honors Spec Top History **credit(s): 1-4**
 Course repeatable for 9 credit.
 Topic to be determined by instructor.
Fulfills the following degree requirement(s): HONS - Honors designation, Core: History

HONS 258 Calculus-Analytic Geometry II **credit(s): 4**
Fulfills the following degree requirement(s): HONS - Honors designation
Equivalent(s): MATH 258
Prerequisite(s): M157 C-

HONS 260 Principles of Accounting I **credit(s): 3**
Fulfills the following degree requirement(s): HONS - Honors designation
Equivalent(s): ACCT 260
Restriction(s):
 Must not be the following Class(es): Freshman

HONS 267 Honors Spec Topics in Art **credit(s): 1-4**
 Course repeatable for 9 credit.
Fulfills the following degree requirement(s): HONS - Honors designation, Core: Fine Arts and Design

HONS 276 Honors Adv Math **credit(s): 1-4**
Fulfills the following degree requirement(s): HONS - Honors designation, Core: Mathematics

HONS 283 Analyzing Practices and Habits **credit(s): 3**
 This course provides a foundation in attending to, analyzing, and reporting meaningful information about the social world through humanistic communication research methods. The course introduces ethnographic and qualitative research methods, ethics, selection of research topics and questions, ethnographic data collection methods (e.g. participant observation; un-, semi- and structured interviewing; structured observation), managing and coding field notes,

and qualitative analysis. In this course, students will create field notes, analyses, and more. Fall and Spring.

Fulfills the following degree requirement(s): HONS - Honors designation, SOSJ - Block D

Equivalent(s): COMM 285, SOSJ 263

Prerequisite(s): COMM 100 or HONS 100

HONS 287 Honors Spec Top in Literature **credit(s): 1-3**

Course repeatable for 9 credit.

Topics will be approved by the Department Chair.

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Literature

HONS 290 Honors Colloquium **credit(s): 3**

Course repeatable for 6 credit.

For Honors Students

Prerequisite(s): HONS 193

HONS 301 Honors Ethics **credit(s): 3**

A general theory of the goals of human life and the norms of moral behavior; the theory will be applied to several specific moral problems. Fall and Spring.

Fulfills the following degree requirement(s): HONS - Honors designation, HONS - PHIL 301H, Core: Ethics

Prerequisite(s): PHIL 201PR

HONS 309 Topics in Social Science **credit(s): 1-4**

Course repeatable for 6 credit.

Topics in Social Science

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 310 Honors Topics Nursing **credit(s): 2-4**

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 311 Fundamentals of Mathematics **credit(s): 3**

Fulfills the following degree requirement(s): HONS - Honors designation

Equivalent(s): MATH 301

Prerequisite(s): MATH 259

HONS 320 Honors Topics Psychology **credit(s): 3**

HONS 325 Bible and Film **credit(s): 3**

Explore different ways in which religion (and theology) and film can be placed into mutually critical conversation. Specific attention given to constructing mutually enriching dialogues between recent films (1999-present) and specific biblical texts. How can biblical texts provide new lenses for the viewing of films? In what ways can films enrich the understanding and interpretation of biblical texts? Offered every semester.

Fulfills the following degree requirement(s): FILM - Film & Human Experience, FILM - Film Elective, RELI - Sacred Texts 01-24, Core: Christian or Catholic

Equivalent(s): FILM 370, RELI 302

HONS 330 Topics in Education **credit(s): 3**

Course repeatable for 9 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 377 International Management credit(s): 0-4

This course examines the information and skills needed to manage an organization in an international setting. Topics include international cultures, cross-cultural communication, cross-cultural negotiation, leadership, ethics, international human resource management and motivation of a multicultural workforce.

Fulfills the following degree requirement(s): BU - Int'l Business conc Rq, HONS - Honors designation, Core: Global Studies

Equivalent(s): MGMT 355

Prerequisite(s): MGMT 350

HONS 380 Special Topics in Writing credit(s): 1-4

Course repeatable for 9 credit.

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Writing Enriched

HONS 381 Special Topics In Literature credit(s): 3

Fulfills the following degree requirement(s): HONS - Honors designation, Core: Literature

HONS 385 Honors: Modern Language credit(s): 3-4

Course repeatable for 8 credit.

Topic determined by cross listed course.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 387 Honors Special Topic credit(s): 1-4

Course repeatable for 9 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 390 Honors Colloquium credit(s): 3

Course repeatable for 6 credit.

For Honors Students

Prerequisite(s): HONS 193 (or concurrent)

HONS 407 Honors Advanced Genetics: credit(s): 3

Course repeatable for 6 credit.

An advanced study of genetics within the context of a selected topic in biology. Past topics have included an examination of human race and racism and the study of genomes. This course may be repeated once as long as the content is different than the first occurrence of enrollment.

Spring, even years.

Pre-requisite: BIOL 106, minimum grade: C- and BIOL 207, minimum grade: C-.

Equivalent(s): BIOL 355

Restriction(s):

Must be in the following Major(s): App Math - Biology, Biology, Biology, Biology

Prerequisite(s): BI106.207

HONS 417 Topics in Math credit(s): 1-4

Course repeatable for 6 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 432 CIS credit(s): 3

The Core Integration Seminar (CIS) engages the Year Four Question: "Imagining the possible: What is our role in the world?" by offering students a culminating seminar experience in which students integrate the principles of Jesuit education, prior components of the Core, and their

disciplinary expertise. Each section of the course will focus on a problem or issue raised by the contemporary world that encourages integration, collaboration, and problem solving. The topic for each section of the course will be proposed and developed by each faculty member in a way that clearly connects to the Jesuit Mission, to multiple disciplinary perspectives, and to our students' future role in the world.

Fulfills the following degree requirement(s): Core: Core Integration Seminar

Prerequisite(s): CIS PREQ

HONS 455 Health Care Ethics Honors **credit(s): 3**

Ethical concepts and issues in the medical field: personhood, relationship between health care professional and patient, experimentation, rights to health care, and allocation of health care resources.

Fulfills the following degree requirement(s): HONS - Honors designation, PHIL - Ethics or Political, Core: Core Integration Seminar

Equivalent(s): PHIL 455

Restriction(s):

Must be in the following Major(s): Nursing, Philosophy

Must be the following Class(es): Junior, Senior, Sophomore

Prerequisite(s): PHIL 301FL

HONS 457 Topics in Engineering **credit(s): 1-4**

Course repeatable for 6 credit.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 481 Strategic Management **credit(s): 3**

A capstone course that introduces strategic management concepts and practices and integrates functional areas in a broad systems-perspective approach to organizational challenges. The primary instructional tool is case analysis. Consideration is given to the international context of strategic management and to the ethical dimensions of decision-making crucial to effective strategy formulation and implementation. Fall and Spring.

Fulfills the following degree requirement(s): HONS - Honors designation

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): BUSNCAPST

HONS 491 Independent Study **credit(s): 1-6**

Course repeatable for 12 credit.

Topic to be determined by faculty.

Fulfills the following degree requirement(s): HONS - Honors designation

HONS 497 Honors Leadership Internship **credit(s): 1-3**

Course repeatable for 6 credit.

Internship requires completion of a form, and Dept. permission and cannot be registered for via ZAGWEB. For Honors Students.

Prerequisite(s): HONS 190

HONS 499 Honors Senior Project **credit(s): 3**

Fall, annually.

Prerequisite(s): HONS 432, minimum grade: C

Military Science

Chairperson: Lieutenant Colonel Eduardo Rodriguez, Professor of Military Science

Assistant Professors: Captain Kyle Esquibel

The Military Science program at Gonzaga University is an element of the United States Army Reserve Officers' Training Corps (ROTC). This highly decorated and nationally recognized program is a cooperative effort between the U.S. Army, Gonzaga University, and Whitworth University. It provides training and qualification for leadership positions in the Regular Army, the U.S. Army Reserve, or the Army National Guard. Qualified students earn a commission as an Army Second Lieutenant while achieving a college degree in the academic discipline(s) of their choosing. Cadets incur no obligation during their first two years of ROTC and are not members of the U.S. Army (unless they are ROTC scholarship winners). Lower-division courses are open to all Gonzaga students.

The objectives of the program are to prepare academically and physically qualified scholar/athlete/leaders for the challenge of serving as commissioned officers in the world's best Army. To that end, the program strives to build leaders of character and competence to serve their country and community.

Description of the Program

The program meets the country's requirement for officer-leaders in the Army (active duty, National Guard, and Reserves). It is, therefore, multifaceted, with distinctive sub-elements to meet individual needs and requirements. For example, ROTC is traditionally a four-year program, but individuals with prior service, members of Reserve or National Guard units, participants of JROTC in high school and summer Cadet Initial Entry Training (CIET) participants may receive advanced-placement credit and may complete the program in two years. Students enroll in one military science class, leadership laboratory and the military physical fitness course per semester. The program consists of two phases: the basic course (lower division), normally taken during the freshman and sophomore years or completed through advanced-placement credit, and the advanced course (upper division).

Basic Course

First-year and second-year courses, MILS 101, MILS 102, MILS 201, and MILS 202 are designed for beginning students who want to qualify for entry into the advanced course and for those students who may want to try military science without obligations. In addition to their academic requirements, basic-course cadets may participate in a variety of extracurricular activities. Placement credit for the basic course may be granted to students who have completed initial entry training for the armed forces, three years of Junior ROTC in high school or the ROTC Leaders' Training Course. MILS 101 and MILS 102 concentrate on fundamental

skills, concepts, values, and problem solving and provide an overview of how the military fits into society. MILS 201 and MILS 202 more thoroughly address problem solving, critical thinking, communications, conflict-resolution skills and leadership.

Advanced Course

The advanced course consists of MILS 301, MILS 302, MILS 401, and MILS 402. It is open only to students who have completed the basic course or earned placement credit (see above). Students must also enroll in leadership labs (MILS 301L, MILS 302L, MILS 401L, or MILS 402L) and Military Physical Fitness (MILS 303, MILS 304, MILS 403, or MILS 404). Students also attend the four-week ROTC Cadet Leader Course (CLC) during the summer between their junior and senior years. In addition to their academic requirements, advanced-course cadets provide student leadership for the Gonzaga Bulldog Battalion.

Completion of the basic course, advanced course, and CLC, coupled with a bachelor's degree from the college, qualify the cadet for a commission as a Second Lieutenant in the United States Army.

Financial Assistance

Freshman thru Senior cadets who are on scholarship and contracted will receive \$420 a month, respectively, for ten months each year. Advanced-course students receive a subsistence allowance.

Scholarships: High school seniors interested in applying for a four-year scholarship normally submit applications by February 1st of their senior year via www.goarmy.com/rotc. Freshman-level and sophomore-level students may compete for Army ROTC campus-based scholarships. These scholarships are applied to tuition and fees plus an allowance for books, on campus room and board. A student need not be enrolled in ROTC to be eligible to compete for two-year or three-year scholarships. No commitment is made until a scholarship is accepted, the student meets all administrative and physical criteria, and the oath for contracting is administered.

Fees, Uniforms, and ROTC Texts:

There are no fees for any classes. Uniforms, texts, and other equipment are furnished without charge. Students are responsible for and must return all government property issued to them.

Extracurricular Activities

Color Guard: The Gonzaga University Color Guard participates in a variety of school and civic functions where precision drill or presentation of the U.S. flag is appropriate.

Intramural Sports: The ROTC program sponsors teams that participate in flag football, volleyball, basketball, softball and other sports of the Gonzaga University intramural leagues. The program sponsors special event teams at both Gonzaga and Whitworth and sponsors cadet intramural teams as coordinated by the Gonzaga cadets with the professor of Military Science.

Special Qualification Training: Advanced-course and select basic-course cadets may participate in confidence-building courses such as Air Assault School, Airborne School, Northern Warfare Training Center, and Cadet Troop Leadership Training at locations around the world.

Courses:

MILS 101 Intro to Army & Critical Think credit(s): 3

MIL S 101 introduces you to the personal challenges and competencies that are critical for effective leadership and communication. You will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. Weekly requirements: up to three hours for class and a required leadership lab, MILS 101L, plus required participation in a minimum of three one hour sessions for physical fitness. Participation in one off-campus exercises (mandatory). Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Freshman

Corequisite(s): MILS 101L

MILS 101L Leadership Laboratory credit(s): 1

Open only to (and required of) students in the associated Military Science course. Learn and practice basic skills. Gain insight into advanced course in order to make an informed decision whether to apply for it. Build self-confidence and team-building leadership skills that can be applied throughout life. Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Freshman

MILS 102 Intro Ldrshp & Critical Think credit(s): 3

Learn/apply principles of effective leadership. Reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. Weekly requirements: up to three

hours for class and a required leadership lab, MILS 102L, plus required participation in three one hour sessions for physical fitness. Participation in one off-campus exercise (mandatory).

Equivalent(s): MILS 191

Restriction(s):

Must be the following Class(es): Freshman

MILS 102L Leadership Laboratory

credit(s): 1

Restriction(s):

Must be the following Class(es): Freshman

MILS 103 Military Physical Fitness Prog

credit(s): 1

Course repeatable for 2 credit.

Intensive military physical fitness program designed to raise the level of individual physical fitness to its highest potential with emphasis on the development of an individual fitness program and the role of exercise and fitness in one's life. Participate in and learn to lead a physical fitness program.

Restriction(s):

Must be the following Class(es): Freshman

MILS 104 Military Physical Fitness

credit(s): 1

Course repeatable for 2 credit.

MILS 190 Directed Reading

credit(s): 0-3

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Restriction(s):

Must be the following Class(es): Freshman

MILS 191 Directed Reading

credit(s): 1-3

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 102

Restriction(s):

Must be the following Class(es): Freshman

MILS 201 Leadership & Decision Making

credit(s): 3

Learn/apply ethics-based leadership skills that develop individual abilities and contribution to the building of effective teams. Develop skills in oral presentations, writing concisely, planning events, coordination of group efforts, advanced first aid, land navigation and basic military tactics. Learn fundamentals of ROTC's Leadership Development Program. Weekly requirement up to three hours for class and a required leadership lab, MILS 201L, plus required participation in a minimum of three one hour sessions for physical fitness. Participation in several off-campus (mandatory) exercises. Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Equivalent(s): MILS 290

Restriction(s):

Must be the following Class(es): Sophomore

Corequisite(s): MILS 201L

MILS 201L Leadership Lab **credit(s): 1**

Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Sophomore

MILS 202 Army Doctrine & Team Dvlpmnt **credit(s): 3**

Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper division ROTC students. Learn techniques for training others as an aspect of continued leadership development. Weekly requirements: up to three hours for class and a required leadership lab, MILS 202L, plus required participation in a minimum of three one hour sessions for physical fitness. Participation in several off-campus exercises (mandatory).

Equivalent(s): MILS 291

Restriction(s):

Must be the following Class(es): Sophomore

MILS 202L Leadership Lab **credit(s): 1**

Restriction(s):

Must be the following Class(es): Sophomore

MILS 203 Mil Phys Fitness Program **credit(s): 1**

Course repeatable 1 time.

Restriction(s):

Must be the following Class(es): Freshman

MILS 204 Military Physical Fitness **credit(s): 1**

Course repeatable for 2 credit.

MILS 290 Directed Reading **credit(s): 1-3**

Course repeatable 1 time.

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 201

Restriction(s):

Must be the following Class(es): Sophomore

MILS 291 Directed Reading **credit(s): 1-3**

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 202

Restriction(s):

Must be the following Class(es): Sophomore

Prerequisite(s): MILS 201 or MILS 290

MILS 300 Ranger Challenge **credit(s): 1**

Course repeatable for 4 credit.

Must be enrolled in Military Science Basic or Advanced Class.

MILS 301 Train Mgmt & Warfight Function**credit(s): 3**

Course repeatable for 4 credit.

Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead in situations of increasing complexity. Use small unit tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leadership. Weekly requirements: up to three hours for class and a required leadership lab, MILS 301L, plus required participation in a minimum of three one hour sessions for physical fitness. Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Equivalent(s): MILS 390

Restriction(s):

Must be the following Class(es): Junior

Corequisite(s): MILS 301L

MILS 301L Leadership Laboratory**credit(s): 1**

Open only to students in the associated Military Science course. Involves leadership responsibilities for the planning, coordination, execution and evaluation of various training and activities with Basic Course students and of the ROTC program as a whole. Students develop, practice and refine leadership skills by serving and being evaluated in a variety of responsible positions. Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Junior

MILS 302 App Ldrshp in Small Unit Oper**credit(s): 3**

Continues methodology of MILS 301. Analyze tasks; prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine and apply lessons from leadership case studies. Examine the importance of ethical decision making in setting a positive climate that enhances team performance. Weekly requirements up to three hours for class and a required leadership lab, MILS 301L, plus required participation in a minimum of three one hour sessions for physical fitness.

Restriction(s):

Must be the following Class(es): Junior

MILS 302L Leadership Laboratory**credit(s): 1**

Restriction(s):

Must be the following Class(es): Junior

MILS 303 Military Phys Fitness Program**credit(s): 1**

Course repeatable for 2 credit.

Open only to (and required of) students in MILS 301, 302, 401, 402, of which this program is an integral part. Participate in planning and leading physical fitness programs. Develop the physical fitness required of an officer in the Army. Emphasis on the development of an individual fitness program and the role of exercise and fitness in one's life.

Restriction(s):

Must be the following Class(es): Junior

MILS 304 Military Physical Fitness credit(s): 1

Course repeatable for 2 credit.

MILS 310 U.S. Military History credit(s): 3

United States military history from the earliest formation of the Colonial Militias through the Global War on Terror. Major themes of the course are the causes, course, and outcomes of major conflicts in US history as well as the impacts these events had on the development of the US Military. Course to be offered in Fall or Spring semester.

MILS 390 Directed Reading credit(s): 1-3

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 301

Restriction(s):

Must be the following Class(es): Junior

MILS 391 Directed Reading credit(s): 1-3

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 302

Restriction(s):

Must be the following Class(es): Junior

Prerequisite(s): MILS 301 or MILS 390

MILS 395 Advanced Camp credit(s): 3

A four-week leadership practicum conducted at an Active Army installation. Only open to (and required of) students who have completed MILS 301 and 302. The student receives pay, travel, lodging and most meal costs are defrayed by the U.S. Army. The Advanced Campus environment is highly structured and demanding, stressing leadership at small unit level under varying, challenging conditions. Individual leadership and basic skills performance are evaluated throughout the camp. Although this course is graded on a Pass/Fail basis only, the leadership and skills evaluations at the camp weigh heavily in the subsequent selection process that determines the type commission and job opportunities given to the student upon graduation from ROTC and the university.

Restriction(s):

Must be the following Class(es): Junior

Prerequisite(s): MILS 302 or MILS 391

MILS 401 The Army Officer credit(s): 3

Plan, conduct and evaluate activities of the ROTC cadet organization. Articulate goals, put plans into action to attain them. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn/apply various Army policies and programs in this effort. Weekly requirements: up to three hours for class and a required leadership lab, MILS 401L, plus required participation in a minimum of three one hour sessions for physical fitness, and participation in several off-campus exercises (mandatory).

Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Senior

Corequisite(s): MILS 401L

MILS 401L Leadership Laboratory

credit(s): 1

Purchasing an annual Washington State Park Discover Pass for this class is highly encouraged. Passes are \$33 per year. <http://www.discoverpass.wa.gov>.

Restriction(s):

Must be the following Class(es): Senior

MILS 402 Company Grade Leadership

credit(s): 3

Continues the methodology from MILS 401. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as they relate to leading as an officer in the Army. Prepare for a future as a successful Army lieutenant. Weekly requirements: up to three hours for class and a required leadership lab, MILS 402L, plus required participation in a minimum of three one hour sessions for physical fitness, and participation in several off-campus exercises (mandatory).

Equivalent(s): MILS 491

Restriction(s):

Must be the following Class(es): Senior

MILS 402L Leadership Laboratory

credit(s): 1

Restriction(s):

Must be the following Class(es): Senior

MILS 403 Mil Physical Fitness Program

credit(s): 1

Course repeatable for 2 credit.

Restriction(s):

Must be the following Class(es): Senior

MILS 404 Military Physical Fitness

credit(s): 1

Course repeatable for 2 credit.

MILS 490 Directed Readings

credit(s): 1-5

Course repeatable for 12 credit.

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): MILS 302 or MILS 391

MILS 491 Directed Readings

credit(s): 1-3

Directed Reading requires completion of a form, and department permission and cannot be registered for via ZAGWEB.

Equivalent(s): MILS 402

Restriction(s):

Must be the following Class(es): Senior

Prerequisite(s): MILS 401 or MILS 490

Summer Session

Gonzaga University offers a wide range of summer courses, both online or on campus including many University Core options. Courses are offered during two six-week summer sessions.

Students from other colleges and universities are welcome to take Summer Session courses at Gonzaga, and are encouraged to work with their academic advisors at their home institutions regarding transfer credits and course planning. Students are considered “non-degree seeking” when enrolled at another college. See the Admissions section of this catalog for more information on applying for a degree program.

Details on courses, dates, costs, and registration are available on the Summer Session website, <http://www.gonzaga.edu/summer>, by emailing summer@gonzaga.edu or by calling 509-313-6228.

The School of Law

Dean: Jacob H. Rooksby, J.D., Ph.D.

In 1912, the Trustees of Gonzaga University established the Gonzaga University School of Law with the active support of many prominent members of the bench and bar in Washington State. In its first century, the School of Law produced many exceptional lawyers, and it is committed to an equally exceptional second century. Gonzaga Law is fully accredited by the American Bar Association, which entitles graduates to take the bar exam in any state. Gonzaga Law is also a member of the Association of American Law Schools.

Objectives of Gonzaga University School of Law

Gonzaga Law belongs to a long and distinguished tradition of law schools which deliver a humanistic, Jesuit education rooted in the principles of intellectual inquiry, fairness, justice, and respect for human dignity. The school is committed to preserving this tradition which informs each aspect of the student experience.

Just as the school challenges its students to understand the knowledge of the past, we understand that a firm grasp of the innovations of the present is also necessary in order to better serve society. Gonzaga emphasizes the education and development of the whole person and works to instill in its students a strong commitment to social justice as it encourages students to take individual initiative and personal responsibility for the betterment of their communities.

The school also recognizes its responsibility to the public and to the legal profession. As a result, Gonzaga Law works to prepare graduates to be analytical thinkers, accomplished writers, and creative problem-solvers. Gonzaga graduates will be able to translate their thoughts into effective, productive action on behalf of clients.

For those students who may not want to follow a traditional career path, the school's J.D. curriculum provides students with the tools to succeed in a wide range of other career fields.

One of the school's greatest strengths is the dedication and commitment of the faculty and staff who provide students with personal, individual attention. Each student's educational journey will be guided by distinguished and dedicated faculty and shaped by the paths of the many justices, judges, advocates, and leaders who are proud Gonzaga Law alumni.

Gonzaga Law believes that the courtroom can be a powerful classroom and that practical skills should accompany intellectual inquiry. This is why Gonzaga takes pride in providing students with a quality legal education including practical, hands-on experience that will ease students' transition from the academic world to the world of legal practice. Gonzaga Law graduates are known for being zealous advocates and community leaders.

Full-time Programs

Gonzaga Law offers a full-time, three-year, 90-credit degree (85 credits for students matriculating in 2024). In some circumstances, students can take advantage of flexible scheduling to complete their degrees in four or five years. All degree credits must be completed within five years of matriculation.

Gonzaga Law also offers an Executive Two-Year J.D. program that allows students to earn their degree in two years rather than three. The program is distinct from the three-year program not just for its speed. Executive Two-Year J.D. students must take required coursework in the fields of business and leadership. Also, because the program requires students to carry a full course load for six consecutive semesters, students are required to apply eight of their credits toward experiential learning. This enhancement provides students with the chance to learn outside the classroom in a legal setting while taking their accelerated schedule into consideration.

Curriculum

Gonzaga's legal education program is deliberately focused on educating the whole person. The rigorous, well-rounded curriculum focuses on legal analysis, problem-solving, values, and ethics. Equally important is the emphasis on practical experience, enabling students to develop real-world lawyering skills.

Gonzaga Law requires students to complete a rigorous legal research and writing program that helps students develop the writing and analytical skills so valued by employers and so necessary to the practice. The school offers upper-division electives in many different areas of the law, including: trial and appellate advocacy; education law; intellectual property law; family law; employment law; immigration law; environmental/natural resource law; business and commercial law; and international law. The classes are taught by nationally and internationally recognized faculty whose scholarship adds an important dimension to their teaching.

To complete their education, all students are required to engage in experiential learning through working in a professional externship, designated simulation course, or in one or more of Gonzaga's clinical legal programs during their second or third year of studies. Gonzaga Law students have externed with courts, law firms, as well as prosecutor and public defender offices at the local, state, and federal levels, including the U.S. Court of Appeals for the Ninth Circuit, the Washington Supreme Court, the Federal Trade Commission, the Executive Office of Immigration Review, and other state and federal agencies. Recent placements in non-profit entities include the Northwest Justice Project, the National Center on Sexual Exploitation, and the Northwest Immigrant Rights Project.

Gonzaga Law boasts two academic Centers that serve as platforms for our social justice education and action. The Center for Civil & Human Rights provides students, scholars, and community leaders with opportunities to explore and address issues relating to civil and human rights through research, education, and community engagement. The Center for Law, Ethics, & Commerce imparts legal and theoretical knowledge and teaches the lawyering skills needed to represent businesses and consumers in all manner of commercial transactions, with a particular sensitivity toward corporate behavior on the public good. Both Centers complement students' classroom work and allow students to dive deeply into legal and community issues.

Clinical Legal Programs

Another choice that Gonzaga Law students have for experiential learning is Gonzaga Law School's Clinical Legal Programs (GLS-CLP). GLS-CLP is an on-campus clinic that provides legal services to clients, including low-income persons, and is a major provider of *pro bono* legal services in the Spokane area. It also engages in amicus advocacy on behalf of certain entities. Clinical positions are available to students in good standing and students are encouraged to take an active role in performing real legal work.

In GLS-CLP, students work on real cases with real clients under the supervision of clinical instructors who are licensed attorneys. Students can appear in court on behalf of clients under Rule 9 of the Washington State Bar Association's Court Rules after they have completed two years of course work and been approved by the WSBA.

Students in GLS-CLP have argued appeals before the Washington Supreme Court and the U.S. Court of Appeals for the Ninth Circuit. They have testified before Congressional committees in Washington, D.C. about the impact of pending legislation. They have appeared in Kalispel Tribal Court as advocates and argued on behalf of their clients. They have helped clients who needed health care services, housing assistance, estate planning services, and parenting plans. They helped clients who dreamed of starting their own businesses and clients who did not want to face the IRS alone. In GLS-CLP, every student makes a difference.

On-campus clinical offerings include business law, elder law, Indian law, immigration law, LGBTQ+ rights, and tax law.

Dual Degree Programs

Gonzaga Law and the Graduate School of Business offer dual-degree programs leading to the Juris Doctor/Master of Business Administration (J.D./MBA), the Juris Doctor/Master of Accountancy (J.D./MAcc), and the Juris Doctor/Master of Science in Taxation (J.D./MSTax). These programs train attorneys with a business background to provide skilled leadership in the sophisticated and challenging world of modern business transactions. Application must be made to the Gonzaga University Graduate School of Business as well as to the law school.

Additionally, a Juris Doctor/Master of Social Work (J.D./MSW) dual-degree program is available in partnership with Eastern Washington University. It is designed to prepare law and social work professionals to practice either profession competently and to enable them to use this unique combination of skills in new and enriched ways. This four-year program (three years for students with "Advanced Standing" in Social Work) will lead successful students to a J.D. from Gonzaga University School of Law and a Master's in Social Work from Eastern Washington University. Students must apply and be admitted to both Gonzaga University School of Law and the Eastern Washington University School of Social Work and must meet each school's established admissions criteria.

Co-Curricular Activities

Gonzaga's educational philosophy is based on the centuries-old Ignatian model of educating the whole person: mind, body, and spirit. Gonzaga's student organizations are diverse in nature. Whatever students' interests or career goals, there are activities available that will enhance their knowledge and abilities while also contributing to the community.

Gonzaga is a major player in national moot court competitions and fields a variety of moot court teams. Students also have an opportunity to participate in the Linden Cup, Gonzaga's prestigious intra-school moot court competition. The student-run *Gonzaga Law Review* is circulated throughout the country, and the *Gonzaga Journal of International Law*, the online international law journal, receives submissions from around the world.

The Student Bar Association encourages student involvement, and there are abundant opportunities to participate in student organizations, legal fraternities, public service projects, and other activities. Programs such as the Juvenile Records Sealing Project and the Moderate Means Program allow even first-year law students to spend time helping members of the Spokane community access legal services.

Gonzaga Law sponsors a summer study of law program in Florence, Italy where students can take classes with an international and comparative law focus.

Physical Facilities and Chastek Law Library

Set on the banks of the beautiful Spokane River, the Gonzaga Law building is a stunning environment for research and learning. The facilities offer a variety of classroom and library environments to support interactive teaching and learning methods. Features throughout the building encourage students to linger and discuss ideas in beautiful outdoor spaces, roof plazas and balconies, and comfortable lounges, all with new furnishings that have been upgraded or installed within the past two years.

The mix of classrooms, study spaces, seminar rooms, and clinical settings provide flexibility to integrate the best of traditional law teaching and collaborative and innovative learning. Gonzaga's tradition of excellence in advocacy training and moot court competitions is promoted in the beautiful, two-story Barbieri Courtroom.

The Chastek Library is a warm and inviting legal learning and research environment filled with natural light and designed to be conducive to individual and group study. The library's rich collection of print and electronic resources supports the research and scholarly needs of students, faculty, and the wider legal community.

Admissions

Gonzaga Law endeavors to attract students with ambitious minds, professional motivation, and commitment to the highest ethics and values of the legal profession. A faculty committee reviews all applications and does not restrict its consideration of applicants to impersonal statistics. Also considered

are an applicant's unique qualities, such as work and life experiences, personal accomplishments, and the opinions of others as reflected in letters of recommendation.

Gonzaga Law seeks to enroll a diverse student body to ensure that the school and the legal profession are enriched through the participation of people from different cultural, ethnic, and socioeconomic backgrounds. Those individuals who want the admission review committee to consider diversity factors in their application process are encouraged to provide information about their experiences, identity, and background in their applications. More information about Gonzaga Law's commitment to diversity can be found at <https://www.gonzaga.edu/school-of-law/about/mission-vision>.

Students who are in good standing at another ABA-accredited law school may apply for admission to Gonzaga Law with advanced standing as a transfer student.

For admission information, write or call:

Admissions Office
Gonzaga University School of Law
PO Box 3528
Spokane, WA 99220-3528
509-313-5532
admissions@lawschool.gonzaga.edu
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2024-2025 Academic Calendar

(This calendar does not pertain to the Law School or the Online Graduate Courses Calendar)

Fall Semester 2024

New Faculty Orientation

Fall Faculty Conference

Residence Halls Open (New Students)

Residence Halls Open (Returning Students)
New Student Orientation

President's Reception and Welcome Mass
Academic Convocation
New Students Meet with Assigned Advisors
Monday ONLY Classes Begin

Classes Begin

Labor Day Holiday

Last Day to Add

Last Day to Drop

Mass of the Holy Spirit

***(The only classes canceled are those conflicting with Mass & lunch following
labs that meet once per week are not canceled)***

Incompletes Revert to Provisional Grades

Fall Family Weekend

Founder's Day Holiday

Mid-Semester Grades Due in Registrar's Office

Last Day to Withdraw from a Course

Thanksgiving Holiday

Reading/Study Days

Last Week of the Semester

Christmas Holiday Begins
Grades Due in Registrar's Office

Date

Thursday, August 15 and
Friday, August 16

Thursday, August 22 and
Friday, August 23

Friday, August 23 and
Saturday, August 24

Sunday, August 25

Friday, August 23 –
Monday, August 26

Sunday, August 25

Monday, August 26

Monday, August 26

Monday, August 26

Tuesday, August 27

Monday, September 2

Wednesday, September 4

Friday, September 6

Tuesday, September 10

Friday, September 27

Friday, October 4 –
Sunday, October 6

Monday, October 21

Tuesday, October 22

Friday, November 8

Wednesday, November 27 -
Friday, November 29

Saturday, December 7 -
Monday, December 9

Tuesday, December 10 –
Friday, December 13

Monday, December 16

Wednesday, December 18

Spring Semester 2025

Residence Halls Open
New Student Orientation
Spring Faculty Conference
Monday Only Classes Begin
Classes Begin
Martin Luther King, Jr., Holiday
Last Day to Add
Last Day to Drop
Incompletes Revert to Provisional Grades
Presidents' Day Holiday
Spring Vacation

Mid-semester Grades Due in Registrar's Office
Last Day to Withdraw from a Course
Good Friday Holiday
Easter Holiday
Reading/Study Days

Last Week of Semester

Student Honors and Magis Academic Achievement Awards
Commencement Mass
Graduate School Commencement
Undergraduate Commencement
Grades Due in Registrar's Office

Date

Sunday, January 12
To be set by Student Affairs
Monday, January 13
Monday, January 13
Tuesday, January 14
Monday, January 20
Wednesday, January 22
Friday, January 24
Friday, February 14
Monday, February 17
Monday, March 10 –
Friday, March 14
Tuesday, March 11
Thursday, April 3
Friday, April 18
Monday, April 21
Saturday, May 3 –
Monday, May 5
Tuesday, May 6 –
Friday, May 9
Friday, May 9
Saturday, May 10
Saturday, May 10
Sunday, May 11
Wednesday, May 14

Summer 2025

First Session Begins
Memorial Day Holiday
Juneteenth Holiday
First Session Ends
Second Session Begins
Independence Day Holiday
Second Session Ends
Summer Begins
Summer Ends

Date

Monday, May 19
Monday, May 26
Thursday, June 19
Friday, June 27
Monday, June 30
Friday, July 4
Friday, August 8
Monday, May 19
Friday, August 8

Approved by Academic Council - March 29, 2021