## COLLEGE of ARTS \& SCIENCES Language Requirement

All students who major in the College of Arts \& Sciences are required to demonstrate competence in a second language. For complete details: https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-students/language-requirement-information


NOTE: some courses have pre-requisites, check the catalog carefully!

| Social \& Behavioral Science | Credits Sem/7r |
| :---: | :---: |
|  | 3 |
| Literature |  |
|  | 3 |
| History |  |
|  | 3 |
| Fine Arts \& Design |  |
|  | 3 |
| $\checkmark$ REQUIRED COURSE DESIGNATIONS - see approved list** |  |
| *Writing Enriched | Credits Sem/Vr |
|  | 9 total |
| Social Justice |  |
|  | 3 total |
| *Global Studies |  |
|  | 6 total |
| ${ }^{* *}$ for list of approved RELI, Broadening \& Designated courses, see : https://my.gonzaga.edu/academics/undergraduate-programs/general-degree- |  |
| requirements-procedures/university-core |  |

## B.A. PHYSICS:

52-53 CREDITS

The B.A. degree in Physics is intended to better allow College of Arts \& Sciences students to complete double majors. Students who earn a B.A. in Physics must also be earning a B.A. in another College of Arts \& Sciences Dept.

LOWER DIVISION
29 Credits

| Course | Course Title |  | Credits Grade |  |
| :--- | :--- | ---: | ---: | :---: |
| PHYS | 121 | Physics I | 4 |  |
| PHYS | 121 Physics I Lab | 1 |  |  |
| PHYS | 122 | Physics II | 4 |  |
| PHYS | $122 L$ | Physics II Lab | 1 |  |
| PHYS | 180 | Physics Skills Seminar | 1 |  |
| PHYS | 201 | Mathematical Methods | 3 |  |
| PHYS | 224 | Modern Physics | 3 |  |
| PHYS | 280 | Physics Pathways Seminar | 1 |  |
| CPSC | 121 | Computer Science I |  |  |
| MATH | 157 | Calculus \& Analytical Geometry I | 3 |  |
| MATH | 258 | Calculus \& Analytical Geometry II | 4 |  |

UPPER DIVISION
18 Credits

|  | 321 | Classical Mechanics | 3 |  |
| :--- | :--- | :--- | :--- | :--- |
| PHYS | 322 | Electricity \& Magnetism | 3 |  |
| PHYS | 323 | Statistical Mechanics | 3 |  |
| PHYS | 324 | Quantum Mechanics | 3 |  |
| PHYS | 325 | Computational Physics | 2 |  |
| PHYS | 441 | Advanced Laboratory I | 2 |  |
| PHYS | 442 | Advancedd Laboratory II | 2 |  |


| Two of the following courses: | 5-6 Credits Credits Grade |  |
| :---: | :---: | :---: |
|  |  |  |
| PHYS 222 Electronics | 2 |  |
| PHYS 424 Advanced Quantum Mechanics | 3 |  |
| PHYS 451 Fields, Oscillations, and Relativity | 3 |  |
| PHYS 452 Optics | 3 |  |
| PHYS 453 Solid State Physics | 3 |  |
| PHYS 454 Nuclear \& Particle Physics | 3 |  |
| PHYS 455 Cosmology \& Astrophysics | 3 |  |
| PHYS 456 Biophysics Systems \& Modeling | 3 |  |
| Physics Majors are also encouraged to take: | Credits Grade |  |
| Course Course Title |  |  |
| MATH 259 Calculus/Analytical Geometry III | 4 |  |
| MATH 260 Ordinary Differential Equations | 3 |  |
| MATH 339 Linear Algebra | 3 |  |

and additional CPSC (Computer Science) courses.

