B.A. MATHEMATICS
with STATISTICS CONCENTRATION

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

	Credits Sem/Yr

UNIVERSITY CORE REQUIREMENTS:
▶ **FUNDAMENTAL CORE COURSES**

Year 1: Understanding & Creating

	Credits Sem/Yr
Writing	
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	**3**
Reasoning	
PHIL 101 Reasoning	**3**
First Year Seminar	
Dept. 193	**3**
Communication & Speech	
COMM 100 Communication & Speech	**3**
Math	
MATH (must be above Math 100)	**3**
Scientific Inquiry (2cr + 1cr lab)	
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	**3**

Year 2: Being & Becoming

	Credits Sem/Yr
Christianity & Catholic Traditions	
RELI (see approved list)**	**3**
Philosophy of Human Nature	
PHIL 201 Philosophy of Human Nature	**3**

Year 3: Caring & Doing

	Credits Sem/Yr
World/Comparative Religion	
RELI (see approved list)** (fulfills 3cr Global Studies)*	**3**
Ethics	
PHIL 301 Ethics **or** RELI 330 Principles-Christian Morality	**3**

Year 4: Imagining the Possible

	Credits Sem/Yr
Core Integration Seminar	
Dept. 432	**3**

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

▶ **BROADENING COURSES -** *see approved list***

	Credits Sem/Yr
Social & Behavioral Science	
	3
Literature	
	3
History	
	3
Fine Arts & Design	
	3

▶ **REQUIRED COURSE DESIGNATIONS -** *see approved list***

	Credits Sem/Yr
*Writing Enriched	
	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. MATHEMATICS: 40 CREDITS
with STATISTICS CONCENTRATION

LOWER DIVISION   **12 Credits**

Course	Course Title	Credits	Grade
MATH 157	Calculus & Analytic Geometry I	4	
MATH 258	Calculus & Analytic Geometry II	4	
MATH 259	Calculus & Analytic Geometry III	4	

UPPER DIVISION   **7 Credits**

Course	Course Title	Credits	Grade
MATH 301	Fundamentals of Mathematics	3	
MATH 339	Linear Algebra	3	
MATH 499	Comprehensive-Math*	1	

* Majors take fall semester of their final year.

One of the following two courses: **3 Credits**

Course	Course Title	Credits	Grade
MATH 413	Real Analysis I	3	
MATH 437	Abstract Algebra I	3	

One Mathematics 300-400 level elective: **3 Credits**

Course	Course Title	Credits	Grade
MATH		3	

Cannot double count with a required course.

STATISTICS CONCENTRATION   **15 Credits**

                                                    3 Credits

MATH 421 Probability Theory	3	

Select one of the following two courses: ***3 Credits***

MATH 321 Statistics for Experimentalists	
MATH 422 Mathematical Statistics	

Select one of the following two courses: ***3 Credits***

MATH 425 Applied Statistical Models	
MATH 426 Experimental Design	

Two Statistics Electives: ***6 Credits***

MATH	

Cannot double-count with courses used elsewhere
At least one course must be MATH.

Statistics Electives: *MATH 422, 423, 426, PHYS 323, PSYC 450, ECON 355, 451, 452, CPSC 322, 323, 324* **These courses may have pre-requisites that are not part of this concentration.**

MATH Electives:
MATH 335, 432, and 496 cannot be used for MATH electives.

A maximum of three (3) credits from the following courses may be counted toward Math electives: MATH 365 (may be taken for credit only once), MATH 390, 490, 497.