## 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


| Year 1: Understanding \& Creating |  |
| :---: | :---: |
| Writing | Credits Sem/Yr |
| ENGL 101 Writing (fulfills 3 credits Writing Enriched)* | 3 |
| Reasoning |  |
| PHIL 101 Reasoning | 3 |
| First Year Seminar |  |
| 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 |  |
| Christianity \& Catholic Traditions | Credits Sem/Yr |
| RELI (see approved list)** | 3 |
| Philosophy of Human Nature |  |
| PHIL 201 Philosophy of Human Nature | 3 |
| Year 3: Caring \& Doing |  |
| World/Comparative Religion | Credits Sem/Yr |
| 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 |  |
| Core Integration Seminar | Credits Sem/Yr |
| 492 | 3 |

NOTE: some courses have pre-requisites, check the catalog carefully!
BROADENING COURSES - see approved list**

| Social \& Behavioral Science | Credits Sem/Yr |
| :--- | ---: | :--- |
| Literature | $\mathbf{3}$ |
| History | $\mathbf{3}$ |
| Fine Arts \& Design | $\mathbf{3}$ |

REQUIRED COURSE DESIGNATIONS - see approved list**
*Writing Enriched
Credits Sem/Yr
9 total
Social Justice
*Global Studies
3 total

6 total
${ }^{* *}$ for list of approved RELI, Broadening \& Designated courses, see :
https://mv.gonzaqa.edu/academics/undergraduate-programs/qeneral-degree-requirements-procedures/university-core

\section*{B.S. MATHEMATICS: <br> 40 CREDITS <br> LOWER DIVISION <br> |  | 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 <br> UPER DIVISION

| Course | Course Title |  | Credits Grade |  |
| :--- | :--- | :--- | :--- | :---: |
| MATH | 301 Fundamentals of Mathematics | 3 |  |  |
| MATH | 339 Linear Algebra | 3 |  |  |
| MATH | 413 Real Analysis I | 3 |  |  |
| MATH | 437 Abstract Algebra I | 3 |  |  |
| MATH | $499 *$ Comprehensive | 1 |  |  |
| *Majors take fall semester of their final year |  |  |  |  |
|  |  |  |  |  |

Any two 400-Level Mathematics courses:
6 Credits
(does NOT include MATH 432)
Course Course Title Credits Grade

| MATH | 3 |  |
| :--- | :--- | :--- |
| MATH | 3 |  |

Mathematics Electives: 9 Credits
Course Course Title Credits Grade

| MATH | 3 |
| :--- | :--- |


| MATH | 3 |  |
| :--- | :--- | :--- |
| MATH | 3 |  |

Minimum of 9 credits from the following*:

* One of these courses may be replaced by MATH 260 (does NOT include MATH 432)
Cannot double count with a course used above
MATH 321 Statistics for Experimentalists
MATH 328 Operations Research
MATH 341 Modern Geometry
MATH 350 Elementary Numerical Analysis
MATH 351 Combinatorics \& Graph Theory
MATH 360-363 Selected Topics
MATH 413 Real Analysis I
MATH 414 Real Analysis II
MATH 417 Complex Variables
MATH 421 Probability Theory
MATH 422 Mathematical Statistics
MATH 437 Abstract Algebra I
MATH 438 Abstract Algebra II
MATH 450-453 Selected Topics
MATH 454 Partial Differential Equations
MATH 457 Number Theory \& Cryptography
MATH 459 Topology
MATH 490 Directed Reading
MATH 497 Mathematics Internship

