

Degree Worksheet for the College of Arts and Sciences: 2021-2022

B.S. MATHEMATICS

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

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	Credits	Sem/Yr
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
	3	
Literature		
	3	
History		
	3	
Fine Arts & Design		
	3	

► REQUIRED COURSE DESIGNATIONS - see approved list**

*Writing Enriched	Credits	Sem/Yr
	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.S. MATHEMATICS:

40 CREDITS

LOWER DIVISION

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	

12 Credits

UPPER 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-Math	1	

13 Credits

**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 423	Stochastic Processes
MATH 437	Abstract Algebra I
MATH 438	Abstract Algebra II
MATH 440	Foundations of Applied Math
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