

College of Arts and Sciences 2025-2026 Degree Worksheet

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

	Credits	Sem/Yr
Writing		
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

	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		
492	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**

*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	

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	

*Majors take fall semester of their final year

Select one of the following five (5) courses:

Course	Course Title			Credits	Grade
MATH 414	Real Analysis II			3	
MATH 417	Complex Variables				
MATH 438	Abstract Algebra II				
MATH 457	Number Theory & Cryptography				
MATH 459	Topology				

Select two 300-400 level MATH electives:

Course	Course Title			Credits	Grade
MATH				3	
MATH				3	

Cannot double count with a course used above

Select two 400-level MATH electives:

Course	Course Title			Credits	Grade
MATH				3	
MATH				3	

MATH 260 may be used as one 300-400 level elective.

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 Mathematics electives:

MATH 365	Math Seminar (may be taken for credit only once)
MATH 390	Directed Reading
MATH 490	Directed Reading
MATH 497	Mathematics Internship