

College of Arts and Sciences 2024-2025 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
<i>Writing</i> ENGL 101 Writing <i>(fulfills 3 credits Writing Enriched)*</i>	3	
<i>Reasoning</i> PHIL 101 Reasoning	3	
<i>First Year Seminar</i> 193	3	
<i>Communication & Speech</i> COMM 100 Communication & Speech	3	
<i>Math</i> MATH <i>(must be above Math 100)</i>	3	
<i>Scientific Inquiry (2cr + 1cr lab)</i> BIOL or CHEM or PHYS 104/104L <i>(taken year 1 or 2)</i>	3	

Year 2: Being & Becoming

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

Year 3: Caring & Doing

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

Year 4: Imagining the Possible

	Credits	Sem/Yr
<i>Core Integration Seminar</i> 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**

	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.S. MATHEMATICS:

40 CREDITS

LOWER DIVISION

Course	Course Title			Credits	Grade
MATH 157	Calculus & Analytic Geometry I	4		12 Credits	
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		13 Credits	
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		3 Credits	
MATH 417	Complex Variables				
MATH 438	Abstract Algebra II				
MATH 457	Number Theory & Cryptography				
MATH 459	Topology				

Select two 300-400 level MATH electives:

	Credits	Grade
<i>(these may also come from the list of 5 above)</i> MATH	3	
MATH	3	

Cannot double count with a course used above

Select two 400-level MATH electives:

	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 <i>(may be taken for credit only once)</i>
MATH 390	Directed Reading
MATH 490	Directed Reading
MATH 497	Mathematics Internship