

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

B.A. 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	
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

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
Dept. 432	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.A. MATHEMATICS:

31 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 499	Comprehensive-Math*	1	

7 Credits

** 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	

Any 400-Level Mathematics course:

3 Credits

(does NOT include MATH 432)

Course	Course Title	Credits	Grade
MATH		3	

Mathematics Electives:

6 Credits

Course	Course Title	Credits	Grade
MATH		3	
MATH		3	

Minimum of 6 credits from the following*:

** One of these courses may be replaced by MATH 260*

Cannot double count with a course used above.

MATH 321	Statistics for Experimentalists
MATH 328	Operations research
MATH 341	Modern Geometry
MATH 350	Numerical Methods 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