Degree Worksheet for the College of Arts and Sciences: 2020-2021
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***

	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
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
13 Credits

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

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	