Degree Guide for the College of Arts and Sciences: 2017-2018

B.A. MATHEMATICS

COLLEGE of	of ARTS	& SCIENCES
Langua	ige Req	uirement

All students who major in the College of Arts & Sciences are required to demonstrate competence in a second language. For complete details see: http://www.gonzaga.edu/Academics/Colleges-and-Schools/College-of-Arts- and-Sciences/Majors-Programs/language-requirement-

Credits	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	guinantendenning			
PHIL 101 Reasoning	3			
First Year Seminar	governonananananan			
193	3			
Communication & Speech	processors			
COMM 100 Communication & Speech	3			
Math	homeone			
MATH (must be above Math 100)	3			
Scientific Inquiry (2cr + 1cr lab)	personnen			
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3			
Year 2: Being & Becoming				
provide a del Maria de Caracita de Caracit	Credits Sem/Yr			
RELI (see approved list)**	3			
Philosophy of Human Nature	**************************************			
PHIL 201 Philosophy of Human Nature	3			
Year 3: Caring & Doing				
trend, compared to the great	Credits Sem/Yr			
RELI (see approved list)** (fulfills 3cr Global Studies)*	3			
Ethics	presentational			
PHIL 301 Ethics or RELI 330 Principals-Christian Morality	3			
Year 4: Imagining the Possible				
Core Integration Seminar	Credits Sem/Yr			
492	3			
NOTE: some courses have pre-requisites, check the catalogue carefully!				
► BROADENING COURSES - see approved list**				
	Credits Sem/Yr			
Literature	prosesses of			

Credits Sem/Yr	
3	
3	
3	
3	

*Writing Enriched	Credits Sem/Yr
writing Enriched	9 total
Social Justice	3 total
*Global Studies	C A - A - I

^{**}for list of approved RELI, Broadening & Designated courses, see : http://www.gonzaga.edu/Academics/Undergraduate/General-Degree-Requirements-and-Procedures/University-Core/Default.asp

B.A. MATHEMATICS: 31 CREDITS

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 19 Credits

Course	Course Title	Credits	Grade
MATH	301 Fundamentals of Mathematics	3	
MATH	339 Linear Algebra	3	
MATH	499 Senior Comprehensive	1	

Any two 400-Level Mathematics courses: **6 Credits**

Course	Course Title	Credits	Grade
MATH		3	
MATH		3	

Course	Course Title	Credits	Grade
MATH		3	
MATH		3	

6 Credits

Minimum of 6 credits from the following*:

*One of these courses may be replaced by MATH 260

MATH 321 Statistics for Experimentalists

MATH 328 Operations research

MATH 341 Modern Geometry

Mathematics Electives

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