Degree Worksheet for the College of Arts and Sciences: 2023-2024 **B.S. APPLIED MATHEMATICS with Actuarial Science Concentration**

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 REQUIREMENT FUNDAMENTAL CORE COURSES	S:	
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	_	
<u>Dept.</u> 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	G 1''	c //
Christianity & Catholic Traditions	Credits	Sem/Yi
RELI (see approved list)**	3	
Philosophy of Human Nature	_	
PHIL 201 Philosophy of Human Nature	3	
Year 3: Caring & Doing	C1'1 -	C /\
World/Comparative Religion	Credits	Sem/YI
RELI (see approved list)** (fulfills 3cr Global Studies)* Ethics	3	
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	
Year 4: Imagining the Possible		
Core Integration Seminar	Credits	Sem/Yı
Dept. 432	3	,
NOTE: some courses have pre-requisites, check the catalog c	arefulls	<u>'!</u>
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▶ BROADENING COURSES - see approved list**		
Social & Behavioral Science	Credits	Sem/Yı
	3	
Literature		
	3_	
History		
	3_	
Fine Arts & Design	_	
	3	
PEOLINED COURCE DECICALATIONS	:_1**	
REQUIRED COURSE DESIGNATIONS - see approved		C ^-
*Writing Enriched	Credits	
	9 total	
Social Justice	2 +0+01	
	3 total	
*Global Studies	S +0+0!	
	6 total	
**for list of approved RELI, Broadening & Designated cours		

B.S. APPLIED MATHEMATICS: 69 CREDITS with Actuarial Science Concentration

34 Credits

APPLIED MATHEMATICS

LOWER DIVISION 18 Cred			
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	
MATH	260 Ordinary Differential Equations	3	
CPSC	121 Computer Science I	3	

UPPER DIVISION 13			redits
MATH	301 Fundamentals of Mathematics	3	
MATH	413 Real Analysis I	3	
MATH	422 Mathematical Statistics	3	
MATH	423 Stochastic Processes	3	
MATH	496 Comprehensive-Applied Math	1	

Select one of the following two options:			3 0	3 Credits	
MATH	335 A	Applied Linear Algebra	3		
MATH	339 L	inear Algebra	3		

4	ACTUARIAL SCIENCE CONCENTRATION		35 Credits	
			26 C	redits
1.	MATH	421 Probability Theory	3	
	MATH	494 Topics in Actuarial Science	1	
12	ACCT	263 Accounting Analysis	3	
<u> [</u>]	ECON	201 Microeconomics (min grade B-)	3	
	ECON	202 Macroeconomics	3	
	ECON	301 Intermediate Microeconomics	3	
	ECON	352/352L Money and Banking+Lab	4	
	ECON	355 Regression Analysis	3	
17	ECON	451 Econometrics	3	

Applied Math Electives:

Select one of the following two options:	3 Credits	
MATH 400-level elective	3	
ECON 452 Time Series Analysis	3	

Select two 300-400 level Math electives:	6 Credits	
MATH	3	
MATH	3	

Cannot double-count with a required course.

Cannot use MATH 335, 339, 432, or 499 as MATH electives.

A maximum of three (3) total credits from the following may be counted toward Math electives: MATH 365 (may be taken for credit only once), MATH 390, MATH 490, MATH 497.

https://my.gonzaga.edu/academics/undergraduate-programs/general-degree-

requirements-procedures/university-core