

College of Arts and Sciences 2025-2026 Degree Worksheet

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

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UNIVERSITY CORE REQUIREMENTS: FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

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

Year 2: Being & Becoming

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

Year 3: Caring & Doing

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

Year 4: Imagining the Possible

<i>Core Integration Seminar</i> Dept. 432	3	

NOTE: some courses have pre-requisites, check the catalog carefully!

BROADENING COURSES - see approved list**

Social & Behavioral Science	3	
Literature	3	
History	3	
Fine Arts & Design	3	

REQUIRED COURSE DESIGNATIONS - see approved list**

*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. APPLIED MATHEMATICS: 69 CREDITS with Actuarial Science Concentration

APPLIED MATHEMATICS 34 Credits

LOWER DIVISION 18 Credits

Course	Course Title	Credits
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 Credits

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 Credits

MATH 335	Applied Linear Algebra	3
MATH 339	Linear Algebra	3

ACTUARIAL SCIENCE CONCENTRATION 35 Credits

26 Credits

MATH 421	Probability Theory	3
MATH 494	Topics in Actuarial Science	1
ACCT 263	Accounting Analysis	3
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
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 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.