

College of Arts and Sciences 2025-2026 Degree Worksheet

B.A. MATHEMATICS with STATISTICS 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

	Credits	Sem/Yr

UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

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

Year 2: Being & Becoming

	Credits	Sem/Yr
<i>Christianity & Catholic Traditions</i>		
RELI (see approved list)**	3	<input type="text"/>
<i>Philosophy of Human Nature</i>		
PHIL 201 Philosophy of Human Nature	3	<input type="text"/>

Year 3: Caring & Doing

	Credits	Sem/Yr
<i>World/Comparative Religion</i>		
RELI (see approved list)** (fulfills 3cr Global Studies)*	3	<input type="text"/>
<i>Ethics</i>		
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	<input type="text"/>

Year 4: Imagining the Possible

	Credits	Sem/Yr
<i>Core Integration Seminar</i>		
Dept. 432	3	<input type="text"/>

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

► BROADENING COURSES - see approved list**

	Credits	Sem/Yr
Social & Behavioral Science	3	<input type="text"/>
Literature	3	<input type="text"/>
History	3	<input type="text"/>
Fine Arts & Design	3	<input type="text"/>

► REQUIRED COURSE DESIGNATIONS - see approved list**

	Credits	Sem/Yr
*Writing Enriched		
9 total		<input type="text"/>
Social Justice		
3 total		<input type="text"/>
*Global Studies		
6 total		<input type="text"/>

****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:

40 CREDITS

with STATISTICS CONCENTRATION

LOWER DIVISION

12 Credits

	Course	Course Title	Credits	Grade
	MATH 157	Calculus & Analytic Geometry I	4	<input type="text"/>
	MATH 258	Calculus & Analytic Geometry II	4	<input type="text"/>
	MATH 259	Calculus & Analytic Geometry III	4	<input type="text"/>

UPPER DIVISION

7 Credits

	Course	Course Title	Credits	Grade
	MATH 301	Fundamentals of Mathematics	3	<input type="text"/>
	MATH 339	Linear Algebra	3	<input type="text"/>
	MATH 499	Comprehensive-Math*	1	<input type="text"/>

* 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	<input type="text"/>
	MATH 437	Abstract Algebra I	3	<input type="text"/>

One Mathematics 300-400 level elective:

3 Credits

	Course	Course Title	Credits	Grade
	MATH		3	<input type="text"/>

Cannot double count with a required course.

STATISTICS CONCENTRATION

15 Credits

	Course	Course Title	Credits	Grade
	MATH 421	Probability Theory	3	<input type="text"/>

Select one of the following two courses:

3 Credits

	MATH 321	Statistics for Experimentalists		
	MATH 422	Mathematical Statistics		

Select one of the following two courses:

3 Credits

	MATH 425	Applied Statistical Models		
	MATH 426	Experimental Design		

Two Statistics Electives:

6 Credits

	MATH			

Cannot double-count with courses used elsewhere
At least one course must be MATH.

Statistics Electives: MATH 422, 423, 426, PHYS 323, PSYC 450, ECON 355, 451, 452, CPSC 322, 323, 324 **These courses may have pre-requisites that are not part of this concentration.**

MATH Electives:

MATH 335, 432, and 496 cannot be used for MATH electives.

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