

# College of Arts and Sciences 2025-2026 Degree Worksheet

## B.S. 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

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### UNIVERSITY CORE REQUIREMENTS:

#### ▶ FUNDAMENTAL CORE COURSES

##### Year 1: Understanding & Creating

<i>Writing</i>	Credits Sem/Yr	
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3	
<i>Reasoning</i>		
PHIL 101 Reasoning	3	
<i>First Year Seminar</i>		
193	3	
<i>Communication &amp; 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 &amp; Catholic Traditions</i>	Credits Sem/Yr	
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>	Credits Sem/Yr	
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>	Credits Sem/Yr	
492	3	

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

#### ▶ BROADENING COURSES - see approved list\*\*

Social & Behavioral Science	Credits Sem/Yr	
	3	
Literature		
	3	
History		
	3	
Fine Arts & Design		
	3	

#### ▶ REQUIRED COURSE DESIGNATIONS - see approved list\*\*

*Writing Enriched	Credits Sem/Yr	
	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:

**49 CREDITS**

#### with STATISTICS CONCENTRATION

##### 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**

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

##### Select one of the following five (5) courses:

**3 Credits**

MATH 414	Real Analysis II				
MATH 417	Complex Variables				
MATH 438	Abstract Algebra II				
MATH 457	Number Theory & Cryptography				
MATH 459	Topology				

##### Select one 300-400 level MATH elective:

**3 Credits**

(these may also come from the 5 listed above)	Credits	Grade
MATH	3	

Cannot double-count with a course used above

##### Select one 400-level MATH elective:

**3 Credits**

MATH	3	
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### STATISTICS CONCENTRATION

**15 Credits**

MATH 421	Probability Theory		3		
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##### 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**

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

**Statistics Elective options:** MATH 422, 423, 426, PHYS 323, ECON 355, 451, 452, CPSC 322, 323, 324, PSYC 450.

Some of these courses may have pre-requisites that are not part of this concentration.

##### MATH Electives:

MATH 260 may be used as one 300-400 level elective.  
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.