Degree Worksheet for the College of Arts and Sciences: 2023-2024

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

FUNDAMENTAL CORE COURSES Year 1: Understanding & Creating		
Writing	Credits	Sem/Y
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3	
Reasoning		
PHIL 101 Reasoning	3	
First Year Seminar		
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		
Christianity & Catholic Traditions		Sem/Y
RELI (see approved list)**	3	
Philosophy of Human Nature		
PHIL 201 Philosophy of Human Nature	3	
Year 3: Caring & Doing		_
World/Comparative Religion	Credits	Sem/Y
RELI (see approved list)** (fulfills 3cr Global Studies)*	3	
Ethics		
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	
Year 4: Imagining the Possible		
Core Integration Seminar	Credits	Sem/Y
492	3	<u> </u>
NOTE: some courses have pre-requisites, check the catalog c	arefuli	y!
► BROADENING COURSES - see approved list** Social & Behavioral Science	Cradite	^ · · · · /\
Social & Benavioral Science	Credits 3	Sem/ i
Literature		
Literature	3	
History		
nistory	3	
Fine Arts & Design		
THE ALG & Design	3	
► REQUIRED COURSE DESIGNATIONS - see approved I	list**	
*Writing Enriched	Credits	Sem/\
	9 total	
Social Justice		. r-
Social Justice	3 total	!
Social Justice *Global Studies	3 total 6 total	

https://my.gonzaga.edu/academics/undergraduate-programs/general-degree-requirements-procedures/university-core

B.S. MATHEMATICS: 49 CREDITS with STATISTICS CONCENTRATION

LOWER DIVISION 12 (
Course	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 Cr	redits
	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	
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^{*}Majors take fall semester of their final year

	Select	one	of the following five (5) courses	: :	3 Cr	edits
	MATH	414	Real Analysis II			
	MATH	417	Complex Variables			
	MATH	438	Abstract Algebra II			
	MATH	457	Number Theory & Cryptography			
	MATH	459	Topology			
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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	

Cannot double-count with a course used above

Select one 400-level MATH elective:	3 Credits
MATH	3

STATISTICS CONCENTRATION 15 Credits

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I MATH	421	Probability Theory	3	ı

	Select	Select one of the following two courses: 3 C			3 C	eaits
	MATH	321	Statistics for Experimentalists			
	MATH	422	Mathematical Statistics			
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	Select	one of the following two courses:	3 Cr	edits
ı	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.