Degree Worksheet for the College of Arts and Sciences: 2022-2023 **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 de ht <u>stı</u>

B.A. MATHEMATICS: 40 CREDITS with STATISTICS CONCENTRATION

demonstrate competence in a second language. For comple		LOWER DIVISION	12 Credits
https://www.gonzaga.edu/college-of-arts-sciences/about/informa	tion-for-	Course Course Title	Credits Grade
students/language-requirement-information_		MATH 157 Calculus & Analytic Geometry I	4
	Credits Sem/Yr	MATH 258 Calculus & Analytic Geometry II	4
		MATH 259 Calculus & Analytic Geometry III	4
			7 Credits
	тс.	UPPER DIVISION Course Course Title	Credits Grade
FUNDAMENTAL CORE COURSES Year 1: Understanding & Creating		MATH 301 Fundamentals of Mathematics MATH 339 Linear Algebra	3
	Cradita Sam //r	MATH 499 Comprehensive-Math*	3
Writing	Credits Sem/Yr 3	* Majors take fall semester of their final year.	L
ENGL 101 Writing (fulfills 3 credits Writing Enriched)* Reasoning	5	iviujois tuke juli serilester oj tilen jilur yeur.	
PHIL 101 Reasoning	3	One of the following two courses:	3 Credits
First Year Seminar	5	Course Course Title	Credits Grade
Dept. 193	3	MATH 413 Real Analysis I	3
Communication & Speech	J	MATH 437 Abstract Algebra I	3
COMM 100 Communication & Speech	3		
Math		One Mathematics 300-400 level elective:	3 Credits
MATH (must be above Math 100)	3	Course Course Title	Credits Grade
Scientific Inquiry (2cr + 1cr lab)	5	MATH	3
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3	Cannot double count with a required course.	
Year 2: Being & Becoming			
Christianity & Catholic Traditions	Credits Sem/Yr		
RELI (see approved list)**	3	STATISTICS CONCENTRATION	15 Credits
Philosophy of Human Nature			
PHIL 201 Philosophy of Human Nature	3		3 Credits
Year 3: Caring & Doing		MATH 421 Probability Theory	3
World/Comparative Religion	Credits Sem/Yr		
RELI (see approved list)** (fulfills 3cr Global Studies)*		Select one of the following two courses:	3 Credits
Ethics	•	MATH 321 Statistics for Experimentalists	
PHIL 301 Ethics or RELI 330 Principles-Christian Moralit	v 3	MATH 422 Mathematical Statistics	
Year 4: Imagining the Possible	•		!
Core Integration Seminar	Credits Sem/Yr	Select one of the following two courses:	3 Credits
Dept. 432	3	MATH 425 Applied Statistical Models	
NOTE: some courses have pre-requisites, check the catalog	carefully!	MATH 426 Experimental Design	
BROADENING COURSES - see approved list**		Two Statistics Electives:	6 Credits
Social & Behavioral Science	Credits Sem/Yr	MATH	
	3		
Literature		Cannot double-count with courses used elsewl	here
	3	At least one course must be MATH.	
History	•		
	3	Statistics Elective options: MATH 422, 423, 426, PH	
Fine Arts & Design	•	ECON 355, 451, 452, CPSC 322, 323, 324 These cou	
	3	pre-requisites that may be outside the concentration	on.
	d 1:~+**	MATH Flortings	
REQUIRED COURSE DESIGNATIONS - see approved list** *Writing Enriched Credits Sem/Yr		MATH Electives: MATH 260 may be used as one 300-400 level elective.	
writing Enriched	9 total	MATH 200 May be used as one 300-400 level electiv 	e.
Social Justice	5 (0(a)	MATH 335, 432, and 496 cannot be used for MATH	alactivas
	3 total		
*Global Studies		A maximum of three (3) credits from the following c	ourses mav
	6 total	be counted toward Math electives: MATH 365 (may	
**for list of approved RELI, Broadening & Designated cou	taken for credit only once), MATH 390, 490, 497.		
https://my.gonzaga.edu/academics/undergraduate-programs/gen			
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requirements-procedures/university-core