## Degree Worksheet for the College of Arts and Sciences: 2022-2023 B.S. APPLIED MATHEMATICS with STATISTICS CONCENTRATION

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COLLEGE of ARTS & SCIENCES	B.S. APPLIED MATHEMATICS: 65 with STATISTICS CONCENTRATION	-66 CREDITS	
Language Requirement	with STATISTICS CONCLIMINATION		
All students who major in the College of Arts & Sciences are	APPLIED MATHEMATICS	34 Credits	
demonstrate competence in a second language. For complete details: <u>https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-</u>		LOWER DIVISION	
students/language-reguirement-information			18 Credits
	Credits Sem/Yr		Credits Grade
		MATH 157 Calculus & Analytic Geometry I	4
		MATH 258 Calculus & Analytic Geometry II MATH 259 Calculus & Analytic Geometry III	4 4
UNIVERSITY CORE REQUIREMENTS:		MATH 259 Calculus & Analytic Geometry III MATH 260 Ordinary Differential Equations	3
► FUNDAMENTAL CORE COURSES	CPSC 121 Computer Science I	3	
Year 1: Understanding & Creating			5
Writing	Credits Sem/Yr	UPPER DIVISION	
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3	1	13 Credits
Reasoning		MATH 301 Fundamentals of Mathematics	3
PHIL 101 Reasoning	3	MATH 350 Numerical Methods	3
First Year Seminar		MATH 413 Real Analysis I	3
Dept. 193	3	MATH 496 Comprehensive-Applied Math	1
Communication & Speech			
COMM 100 Communication & Speech	3	Select one of the following two courses:	3 Credits
Math	•	MATH 335 Applied Linear Algebra	3
MATH (must be above Math 100)	3	MATH 339 Linear Algebra	3
Scientific Inquiry (2cr + 1cr lab)	2		2 6
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3	Select one of the following two courses:	3 Credits
Year 2: Being & Becoming		MATH 321 Statistics for Experimentalists	3
Christianity & Catholic Traditions	Credits Sem/Yr	MATH 422 Mathematical Statistics If MATH 422 is chosen, then one MATH 400 level e	3
RELI (see approved list)** Philosophy of Human Nature	5	may be replaced by a MATH 300 level electiv	
	3	Thuy be replaced by a WATH Soo level electiv	е.
PHIL 201 Philosophy of Human Nature	5		
Vary 2. Crying 8 Daing			
Year 3: Caring & Doing	Cradite Cam/V	STATISTICS CONCENTRATION	31-32 Cradits
World/Comparative Religion	Credits Sem/Yr	STATISTICS CONCENTRATION	<u>31-32 Credits</u>
World/Comparative Religion RELI (see approved list)** (fulfills 3cr Global Studies)*	Credits Sem/Yr <b>3</b>		
World/Comparative ReligionRELI(see approved list)** (fulfills 3cr Global Studies)*Ethics	3	MATH 421 Probability Theory	31-32 Credits
World/Comparative ReligionRELI(see approved list)** (fulfills 3cr Global Studies)*EthicsPHIL 301 Ethics or RELI 330 Principles-Christian Morality	3		
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible	3	MATH 421 Probability Theory	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar	3 3 Credits Sem/Yr	MATH 421 Probability Theory Select one of the following two courses:	3 3 Credits
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432	3 Credits Sem/Yr 3	MATH 421 Probability Theory Select one of the following two courses: MATH 425 Applied Statistical Models	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar	3 Credits Sem/Yr 3	MATH 421 Probability Theory Select one of the following two courses:	3 3 Credits
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog compared	3 Credits Sem/Yr 3	MATH 421 Probability Theory Select one of the following two courses: MATH 425 Applied Statistical Models	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**	3 Credits Sem/Yr 3 carefully!	MATH 421 Probability Theory Select one of the following two courses: MATH 425 Applied Statistical Models MATH 426 Experimental Design	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog compared	3 Credits Sem/Yr 3	MATH 421 Probability Theory Select one of the following two courses: MATH 425 Applied Statistical Models MATH 426 Experimental Design Select one of the following three courses:	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**	3 Credits Sem/Yr 3 Credits Sem/Yr Credits Sem/Yr 3	MATH 421 Probability Theory         Select one of the following two courses:         MATH 425 Applied Statistical Models         MATH 426 Experimental Design         Select one of the following three courses:         MATH 440 Foundations of Applied Math         MATH 454 Partial Differential Equations	3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog component list**         Social & Behavioral Science         Literature	3 Credits Sem/Yr 3 carefully!	MATH 421 Probability Theory         Select one of the following two courses:         MATH 425 Applied Statistical Models         MATH 426 Experimental Design         Select one of the following three courses:         MATH 440 Foundations of Applied Math	3 3 Credits 3 3 3 Credits 3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**         Social & Behavioral Science	3 Credits Sem/Yr 3 Credits Sem/Yr 3 Credits Sem/Yr 3 Credits Sem/Yr 3 Credits Sem/Yr	MATH 421 Probability Theory         Select one of the following two courses:         MATH 425 Applied Statistical Models         MATH 426 Experimental Design         Select one of the following three courses:         MATH 440 Foundations of Applied Math         MATH 454 Partial Differential Equations	3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**         Social & Behavioral Science         Literature         History         Fine Arts & Design         ▶ REQUIRED COURSE DESIGNATIONS - see approved is social social Justice	3 Credits Sem/Yr 3 Credits Sem/Yr 3 Credits Sem/Yr 3 3 3 1 3 1 5 Credits Sem/Yr 9 1 1 1 1 1 1 1 1 1 1 1 1 1	<ul> <li>MATH 421 Probability Theory</li> <li>Select one of the following two courses: MATH 425 Applied Statistical Models MATH 426 Experimental Design</li> <li>Select one of the following three courses: MATH 440 Foundations of Applied Math MATH 454 Partial Differential Equations MATH 462 Nonlinear Systems &amp; Chaos</li> <li>Select one of the following three sets of courses: Biology Set: BIOL 105/105L Info Flow-Biological System + Lab BIOL 106 Energy Flow-Biological Systems</li> <li>Chemistry Set:</li> </ul>	3 3 Credits 3 3 3 3 3 5 3 5 3 5 3 5 3 5 7-8 Credits 4 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3
World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**         Social & Behavioral Science         Literature         History         Fine Arts & Design         ▶ REQUIRED COURSE DESIGNATIONS - see approved is         *Writing Enriched         Social Justice	3 Credits Sem/Yr 3 Credits Sem/Yr 3 Credits Sem/Yr 3 3 1 3 1 5 Credits Sem/Yr	MATH 421 Probability Theory         Select one of the following two courses:         MATH 425 Applied Statistical Models         MATH 426 Experimental Design         Select one of the following three courses:         MATH 440 Foundations of Applied Math         MATH 454 Partial Differential Equations         MATH 462 Nonlinear Systems & Chaos         Select one of the following three sets of courses:         Biology Set:         BIOL 105/105L Info Flow-Biological System + Lab         BIOL 106 Energy Flow-Biological Systems         Chemistry Set:         CHEM 101/101L General Chemistry + Lab	3 3 Credits 3 3 3 3 3 3 3 3 3 3 7-8 Credits 4 3 3 3 4 4 3 4
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World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**         Social & Behavioral Science         Literature         History         Fine Arts & Design         ▶ REQUIRED COURSE DESIGNATIONS - see approved is         *Writing Enriched         Social Justice         **for list of approved RELI, Broadening & Designated course	3         3         Credits Sem/Yr         3         Credits Sem/Yr         3         4         5         5         5         5         5         6         5         5         5         5         5         5         5         5	<ul> <li>MATH 421 Probability Theory</li> <li>Select one of the following two courses: MATH 425 Applied Statistical Models MATH 426 Experimental Design</li> <li>Select one of the following three courses: MATH 440 Foundations of Applied Math MATH 454 Partial Differential Equations MATH 462 Nonlinear Systems &amp; Chaos</li> <li>Select one of the following three sets of courses:</li> <li>Biology Set: BIOL 105/105L Info Flow-Biological System + Lab BIOL 106 Energy Flow-Biological Systems</li> <li>Chemistry Set: CHEM 101/101L General Chemistry + Lab CHEM 205 Inorganic Chemistry</li> <li>Physics Set:</li> </ul>	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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World/Comparative Religion         RELI       (see approved list)** (fulfills 3cr Global Studies)*         Ethics         PHIL 301 Ethics or RELI 330 Principles-Christian Morality         Year 4: Imagining the Possible         Core Integration Seminar         Dept.       432         NOTE: some courses have pre-requisites, check the catalog of         ▶ BROADENING COURSES - see approved list**         Social & Behavioral Science         Literature         History         Fine Arts & Design         ▶ REQUIRED COURSE DESIGNATIONS - see approved is         *Writing Enriched         Social Justice         **for list of approved RELI, Broadening & Designated course	3         3         Credits Sem/Yr         3         Credits Sem/Yr         3         4         5         5         5         5         5         6         5         5         5         5         5         5         5         5	<ul> <li>MATH 421 Probability Theory</li> <li>Select one of the following two courses: MATH 425 Applied Statistical Models MATH 426 Experimental Design</li> <li>Select one of the following three courses: MATH 440 Foundations of Applied Math MATH 454 Partial Differential Equations MATH 462 Nonlinear Systems &amp; Chaos</li> <li>Select one of the following three sets of courses:</li> <li>Biology Set: BIOL 105/105L Info Flow-Biological System + Lab BIOL 106 Energy Flow-Biological Systems</li> <li>Chemistry Set: CHEM 101/101L General Chemistry + Lab CHEM 205 Inorganic Chemistry</li> <li>Physics Set:</li> </ul>	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

## Degree Worksheet for the College of Arts and Sciences: 2022-2023 B.S. APPLIED MATHEMATICS with STATISTICS CONCENTRATION

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Select two Statistics electives:	60	Credits	Select one 300-400 level Math elective:	3 Credits
MATH	3		MATH	3
MATH	3			
Cannot double-count with a course used elsewhere.				
At least one course must be MATH.			Select two 400-level Math electives:	6 Credits
			MATH	3
			MATH	3
Statistics electives:			Cannot double-count with another requirement	
Cannot double-count with a requirement used elsewhere				
MATH 422 Mathematical Statistics				
MATH 423 Stochastic Processes			MATH Electives:	
MATH 426 Experimental Design			Cannot use MATH 335, 339, 432, or 499 as MATH electives.	
ECON 355 Regression Analysis				
ECON 451 Econometrics			A maximum of three (3) total credits from the following may be co	unted
ECON 452 Time Series Analysis			toward Math electives: MATH 365 (may be taken for credit only or	ice),
CPSC 322 Data Science Algorithms			MATH 390, MATH 490, MATH 497.	
CPSC 324 Big Data Analytics				
PHYS 450 Statistical Physics				
Or any course with significant probability or statistics content				
with the <b>prior</b> approval of the Math Department Chair. <b>All of</b>				
these courses have pre-requisites, and may require courses				
outside of the concentration to be taken.				
Check the catalog for pre-requisites when selecting electives				