Paae 1 of 2 **COLLEGE of ARTS & SCIENCES B.S. APPLIED MATHEMATICS: 61 CREDITS Economics Concentration** Language Requirement **APPLIED MATHEMATICS 34 Credits** All students who major in the College of Arts & Sciences are required to demonstrate competence in a second language. For complete details: LOWER DIVISION 18 Credits https://www.gonzaga.edu/college-of-arts-sciences/about/information-for-Course Course Title **Credits Grade** MATH 157 Calculus & Analytic Geometry I students/language-requirement-information 4 MATH 258 Calculus & Analytic Geometry II Credits Sem/Yr 4 MATH 259 Calculus & Analytic Geometry III 4 MATH 260 Ordinary Differential Equations 3 121 Computer Science I CPSC З **UNIVERSITY CORE REQUIREMENTS:** FUNDAMENTAL CORE COURSES UPPER DIVISION 16 Credits Year 1: Understanding & Creating MATH 301 Fundamentals of Mathematics 3 Credits Sem/Yr MATH 339 Linear Algebra 3 Writing MATH 350 Elementary Numerical Analysis 3 ENGL 101 Writing (fulfills 3 credits Writing Enriched)* 3 MATH 413 Real Analysis I 3 Reasonina PHIL 101 Reasoning 3 MATH 422 Mathematical Statistics 3 First Year Seminar MATH 499 Comprehensive 1 3 Dept. 193 Communication & Speech **ECONOMICS CONCENTRATION** 27 Credits **COMM 100 Communication & Speech** 3 Math 3 Credits 3 MATH 421 Probability Theory MATH (must be above Math 100) З Scientific Inquiry (2cr + 1cr lab) BIOL or CHEM or PHYS 104/104L 3 One of the following two courses: 3 Credits (taken year 1 or 2) Year 2: Being & Becoming MATH 454 Partial Differential Equations 3 Christianity & Catholic Traditions Credits Sem/Yr MATH 462 Nonlinear Systems & Chaos 3 RELI (see approved list)** 3 Philosophy of Human Nature Mathematics 300-400 Level Electives: 6 Credits PHIL 201 Philosophy of Human Nature 3 MATH 3 MATH Year 3: Caring & Doing 3 A minimum of 3 credits must be from the MATH electives World/Comparative Religion Credits Sem/Yr (see approved list)** (fulfills 3cr Global Studies)* RELI 3 list; cannot double-count with another requirement. Ethics MATH 328 Operations Research PHIL 301 Ethics or RELI 330 Principles-Christian Morality 3 MATH 341 Modern Geometry Year 4: Imagining the Possible MATH 351 Combinatorics & Graph Theory Core Integration Seminar Credits Sem/Yr MATH 360-363 Selected Topics 3 MATH 414 Real Analysis II Dept. 432 NOTE: some courses have pre-requisites, check the catalog carefully! MATH 417 Complex Variables MATH 437 Abstract Algebra I BROADENING COURSES - see approved list** MATH 438 Abstract Algebra II Social & Behavioral Science Credits Sem/Yr MATH 450-453 Selected Topics 3 MATH 454 Partial Differential Equations Literature MATH 457 Number Theory & Cryptography 3 MATH 459 Topology MATH 462 Nonlinear Systems & Chaos History 3 MATH 498A/498B Thesis I/II Fine Arts & Design 9 Credits 3 ECON 201 Microeconomics 3 202 Macroeconomics ECON 3 REQUIRED COURSE DESIGNATIONS - see approved list** ECON 303 Game Theory-Economic Applications 3 *Writing Enriched Credits Sem/Yr 9 total One of the following two courses: 3 credits Social Justice ECON 301 Intermediate Microeconomics 3 ECON 302 Intermediate Macroeconomics 3 total 3 *Global Studies 6 total ** for list of approved RELI, Broadening & Designated courses, see : continued on Page 2 https://my.gonzaga.edu/academics/undergraduate-programs/general-degreerequirements-procedures/university-core

Degree Worksheet for the College of Arts and Sciences: 2019-2020 **B.S. APPLIED MATHEMATICS** - Economics Concentration

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Page 2 of 2

continued from Page 1

Economics 300-400 Level Elective: ECON	30 3	Credits
ECON 301 Intermediate Microeconomics	5	
ECON 311 Global Economic Issues		
ECON 320 Economics of Sports		
ECON 321 International Economics		
ECON 322/SOSJ 320 Work, Wages, and Inequality		
ECON 324 Economics of Environmental Protection		
ECON 325 Public Finance		
ECON 330 Antitrust Policy & Regulation		
ECON 333 Health Economics		
ECON 334 Behavioral Economics		
ECON 351 Managerial Economics		
ECON 352 Money & Banking		
ECON 404 Economic Integrated European Commun	nity	
ECON 451 Econometrics		
(ECON 321 and 451 are the recommended elective choic	:es)	

Remember to check for pre-requisites when selecting electives.