

# Degree Worksheet for the College of Arts and Sciences: 2020-2021

## B.A. COMPUTER SCIENCE & COMPUTATIONAL THINKING

### Economics 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

	Credits	Sem/Yr

#### UNIVERSITY CORE REQUIREMENTS: FUNDAMENTAL CORE COURSES

##### Year 1: Understanding & Creating

	Credits	Sem/Yr
<i>Writing</i> ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3	
<i>Reasoning</i> PHIL 101 Reasoning	3	
<i>First Year Seminar</i> Dept. 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

	Credits	Sem/Yr
<i>Christianity &amp; Catholic Traditions</i> RELI (see approved list)**	3	
<i>Philosophy of Human Nature</i> PHIL 201 Philosophy of Human Nature	3	

##### Year 3: Caring & Doing

	Credits	Sem/Yr
<i>World/Comparative Religion</i> 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

	Credits	Sem/Yr
Core Integration Seminar Dept. 432	3	

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

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

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

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

	Credits	Sem/Yr
*Writing Enriched	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.A. Computer Science & Computational Thinking - Economics Concentration

58-59 Credits

##### LOWER DIVISION

18-19 Credits

Course	Course Title	Credits	Grade
CPSC 121	Computer Science I	3	
CPSC 122	Computer Science II	3	
CPSC 223	Algorithm/Abstract Data Structures	3	
CPSC 224	Software Development	3	
MATH 231	Discrete Structures	3	

##### One of the following two courses:

Course	Course Title	Credits	Grade
MATH 148	Survey of Calculus	3	
MATH 157	Calculus-Analytic Geometry I	4	

##### UPPER DIVISION

25 Credits

Course	Course Title	Credits	Grade
CPSC 491	Software Engineering	2	
CPSC 491L & 492L	Sr. Design Project Lab I & II	4	
CPSC 499	Computers & Society	1	

##### Computer Science Electives:

18 Credits

Course	any CPSC 200, 300, or 400-level course	Credits	Grade

**NOTE!** 9 of the 18 elective credits to be determined by the DCT Committee to best coincide with the chosen concentration.

A maximum of three **electives** (9 credits) may be 200-level courses. A maximum of five 200-level Computer Science courses may be used in the **entire major**.

Many upper division CPSC courses require CPSC 260 as a **pre-requisite**, see the undergraduate catalog for details.

##### DISCIPLINE for COMPUTATIONAL THINKING (DCT)

#### ECONOMICS CONCENTRATION 15 Credits

Course	Course Title	Credits	Grade
ECON 201	Microeconomics	3	
ECON 202	Macroeconomics	3	

##### One of the following two courses:

ECON 303	Game Theory & Economic Applications	3	
ECON 351	Managerial Economics	3	

##### One of the following two courses:

ECON 355	Regression Analysis	3	
ECON 451	Econometrics*	3	

**NOTE!!** ECON courses have pre-requisites:

	3	
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##### ECON 351 & ECON 355 pre-requisites:

ECON 201 & ECON 202 & (BUSN 230 or MATH 121 or MATH 321)

##### ECON 451 pre-requisites:

ECON 201 & ECON 202 & (BUSN 230 or MATH 121 or MATH 321)