

Degree Worksheet for the College of Arts and Sciences: 2019-2020

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

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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	<input type="text"/>
<i>Reasoning</i>		
PHIL 101 Reasoning	3	<input type="text"/>
<i>First Year Seminar</i>		
Dept. 193	3	<input type="text"/>
<i>Communication & Speech</i>		
COMM 100 Communication & Speech	3	<input type="text"/>
<i>Math</i>		
MATH (must be above Math 100)	3	<input type="text"/>
<i>Scientific Inquiry (2cr + 1cr lab)</i>		
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3	<input type="text"/>

Year 2: Being & Becoming

	Credits	Sem/Yr
<i>Christianity & Catholic Traditions</i>		
RELI (see approved list)**	3	<input type="text"/>
<i>Philosophy of Human Nature</i>		
PHIL 201 Philosophy of Human Nature	3	<input type="text"/>

Year 3: Caring & Doing

	Credits	Sem/Yr
<i>World/Comparative Religion</i>		
RELI (see approved list)** (fulfills 3cr Global Studies)*	3	<input type="text"/>
<i>Ethics</i>		
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	<input type="text"/>

Year 4: Imagining the Possible

	Credits	Sem/Yr
<i>Core Integration Seminar</i>		
Dept. 432	3	<input type="text"/>

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

► BROADENING COURSES - see approved list**

	Credits	Sem/Yr
Social & Behavioral Science	3	<input type="text"/>
Literature	3	<input type="text"/>
History	3	<input type="text"/>
Fine Arts & Design	3	<input type="text"/>

► REQUIRED COURSE DESIGNATIONS - see approved list**

	Credits	Sem/Yr
*Writing Enriched	9 total	<input type="text"/>
Social Justice	3 total	<input type="text"/>
*Global Studies	6 total	<input type="text"/>

****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 Conc. 55-59 Credits

LOWER DIVISION

18-19 Credits

Course	Course Title	Credits	Grade
CPSC 121	Computer Science I	3	<input type="text"/>
CPSC 122	Computer Science II	3	<input type="text"/>
CPSC 223	Algorithm/Abstract Data Structures	3	<input type="text"/>
CPSC 224	Software Development	3	<input type="text"/>
MATH 231	Discrete Structures	3	<input type="text"/>

One of the following two courses:

Course	Course Title	Credits	Grade
MATH 148	Survey of Calculus	3	<input type="text"/>
MATH 157	Calculus-Analytic Geometry I	4	<input type="text"/>

UPPER DIVISION

25 Credits

Course	Course Title	Credits	Grade
CPSC 491	Software Engineering	2	<input type="text"/>
CPSC 491L & 492L	Sr. Design Project Lab I & II	4	<input type="text"/>
CPSC 499	Computers & Society	1	<input type="text"/>

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

12 Credits

Course	Course Title	Credits	Grade
ECON 201	Microeconomics	3	<input type="text"/>
ECON 202	Macroeconomics	3	<input type="text"/>
ECON 451	Econometrics*	3	<input type="text"/>

* **NOTE** : there are pre-requisites for ECON 451, check the undergraduate catalog.

One of the following two courses:

Course	Course Title	Credits	Grade
ECON 303	Game Theory & Economic Applications	3	<input type="text"/>
ECON 351	Managerial Economics	3	<input type="text"/>