

Degree Guide for the College of Arts and Sciences: 2017-2018

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 see: <http://www.gonzaga.edu/Academics/Colleges-and-Schools/College-of-Arts-and-Sciences/Majors-Programs/language-requirement>

Credits Sem/Yr

--	--	--

UNIVERSITY CORE REQUIREMENTS:

► FUNDAMENTAL CORE COURSES

Year 1: Understanding & Creating

Writing	Credits	Sem/Yr
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>		
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

Christianity & Catholic Traditions	Credits	Sem/Yr
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

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

Year 4: Imagining the Possible

Core Integration Seminar	Credits	Sem/Yr
492	3	<input type="text"/>

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

► BROADENING COURSES - see approved list**

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

► REQUIRED COURSE DESIGNATIONS - see approved list**

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

**for list of approved RELI, Broadening & Designated courses, see :

<http://www.gonzaga.edu/Academics/Undergraduate/General-Degree-Requirements-and-Procedures/University-Core/Default.asp>

B.A. Computer Science & Computational Thinking

55-59 Credits

LOWER DIVISION

15-16 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"/>
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"/>

OR

MATH 157	Calculus & Analytic Geometry I	4	<input type="text"/>
----------	--------------------------------	---	----------------------

UPPER DIVISION

28 Credits

Course	Course Title	Credits	Grade
CPSC 491/491L/492L	Softwr Engr/Senior Design I	6	<input type="text"/>
CPSC 499	Computers & Society	1	<input type="text"/>

In consultation with their advisor, students also choose an additional 21 credits in Computer Science courses, including Computer Science courses specific to each concentration.

NOTE: A maximum of four 200 level Computer Science courses may be used in the entire major.

Elective Computer Science courses:

21 Credits

Course	Course Title	Credits	Grade

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 catalogue.

One of the following Upper Division electives:

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