

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

B.A. COMPUTER SCIENCE & COMPUTATIONAL THINKING

Environmental Studies 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 - Environmental Studies

55-59 Credits

LOWER DIVISION

18-19 Credits

	Course	Course Title		Credit: 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		Credit: 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		Credit: 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		Credit: Grade
				<input type="text"/>
				<input type="text"/>
				<input type="text"/>
				<input type="text"/>

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)

ENVIRONMENTAL STUDIES CONCENTRATION

15 Credits

	Course	Course Title		Credit: Grade
	ENVS 101	Intro to Environmental Studies	3	<input type="text"/>
	ENVS 103/103L	Environmental Biology & Lab	4	<input type="text"/>
	ENVS 104/104L	Environmental Chemistry & Lab	4	<input type="text"/>
	ENVS 200	Case Studies in Environmental Science	4	<input type="text"/>