

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

## 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

	Credits	Sem/Yr
	3	1

### UNIVERSITY CORE REQUIREMENTS:

#### ► FUNDAMENTAL CORE COURSES

##### Year 1: Understanding & Creating

	Credits	Sem/Yr
<i>Writing</i>		
ENGL 101 Writing <i>(fulfills 3 credits Writing Enriched)*</i>	3	1
<i>Reasoning</i>		
PHIL 101 Reasoning	3	1
<i>First Year Seminar</i>		
Dept. 193	3	1
<i>Communication &amp; Speech</i>		
COMM 100 Communication & Speech	3	1
<i>Math</i>		
MATH <i>(must be above Math 100)</i>	3	1
<i>Scientific Inquiry (2cr + 1cr lab)</i>		
BIOL or CHEM or PHYS 104/104L <i>(taken year 1 or 2)</i>	3	1

##### Year 2: Being & Becoming

	Credits	Sem/Yr
<i>Christianity &amp; Catholic Traditions</i>		
RELI <i>(see approved list)**</i>	3	1
<i>Philosophy of Human Nature</i>		
PHIL 201 Philosophy of Human Nature	3	1

##### Year 3: Caring & Doing

	Credits	Sem/Yr
<i>World/Comparative Religion</i>		
RELI <i>(see approved list)** (fulfills 3cr Global Studies)*</i>	3	1
<i>Ethics</i>		
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3	1

##### Year 4: Imagining the Possible

	Credits	Sem/Yr
Core Integration Seminar		
Dept. 432	3	1

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

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

	Credits	Sem/Yr
Social & Behavioral Science	3	1
Literature	3	1
History	3	1
Fine Arts & Design	3	1

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

	Credits	Sem/Yr
*Writing Enriched		
<b>9 total</b>	9	1
Social Justice		
<b>3 total</b>	3	1
*Global Studies		
<b>6 total</b>	6	1

**\*\*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

##### LOWER DIVISION

**18-19 Credits**

Course	Course Title	Credit	Grade
CPSC 121	Computer Science I	3	1
CPSC 122	Computer Science II	3	1
CPSC 223	Algorithm/Abstract Data Structures	3	1
CPSC 224	Software Development	3	1
MATH 231	Discrete Structures	3	1

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

Course	Course Title	Credit	Grade
MATH 148	Survey of Calculus	3	1
MATH 157	Calculus-Analytic Geometry I	4	1

##### UPPER DIVISION

**25 Credits**

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

##### Computer Science Electives:

**18 Credits**

Course	any CPSC 200, 300, or 400-level course	Credit	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)*

#### ENVIRONMENTAL STUDIES CONCENTRATION

**15 Credits**

Course	Course Title	Credit	Grade
ENVS 101	Intro to Environmental Studies	3	1
ENVS 103/103L	Environmental Biology & Lab	4	1
ENVS 104/104L	Environmental Chemistry & Lab	4	1
ENVS 200	Case Studies in Environmental Science	4	1