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

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 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

Reasoning
PHIL 101 Reasoning 3

First Year Seminar
193 3

Communication & Speech
COMM 100 Communication & Speech 3

Math
MATH *(must be above Math 100)* 3

Scientific Inquiry (2cr + 1cr lab)
BIOL or CHEM or PHYS 104/104L *(taken year 1 or 2)* 3

Year 2: Being & Becoming

Christianity & Catholic Traditions — Credits Sem/Yr
RELI *(see approved list)*** 3

Philosophy of Human Nature
PHIL 201 Philosophy of Human Nature 3

Year 3: Caring & Doing

World/Comparative Religion — Credits Sem/Yr
RELI *(see approved list)** (fulfills 3cr Global Studies)** 3

Ethics
PHIL 301 Ethics *or* RELI 330 Principals-Christian Morality 3

Year 4: Imagining the Possible

Core Integration Seminar — Credits Sem/Yr
492 3

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

▶ BROADENING COURSES - *see approved list***

Social & Behavioral Science — Credits Sem/Yr 3

Literature 3

History 3

Fine Arts & Design 3

▶ REQUIRED COURSE DESIGNATIONS - *see approved list***

*Writing Enriched — Credits Sem/Yr **9 total**

Social Justice **3 total**

*Global Studies **6 total**

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	
CPSC	122 Computer Science II	3	
CPSC	223 Algorithm/Abstract Data Structures	3	
MATH	231 Discrete Structures	3	

One of the following two courses:

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

UPPER DIVISION — 28 Credits

Course	Course Title	Credits	Grade
CPSC	491/491L/492L Softwr Engr/Senior Design I & II	6	
CPSC	499 Computers & Society	1	

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)

ENVIRONMENTAL STUDIES CONCENTRATION — 15 Credits

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