

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

B.A. COMPUTER SCIENCE & COMPUTATIONAL THINKING

English 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 |
|--|---------|--------|
| | 3 | 1 |
| | 3 | 1 |

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

Year 2: Being & Becoming

| | Credits | Sem/Yr |
|---|---------|--------|
| <i>Christianity & Catholic Traditions</i> | | |
| RELI (see approved list)** | 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 (see approved list)** (fulfills 3cr Global Studies)* | 3 | 1 |
| <i>Ethics</i> | | |
| PHIL 301 Ethics or RELI 330 Principles-Christian Morality | 3 | 1 |

Year 4: Imagining the Possible

| | Credits | Sem/Yr |
|---------------------------------|---------|--------|
| <i>Core Integration Seminar</i> | | |
| 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 | 9 total | 1 |
| Social Justice | 3 total | 1 |
| *Global Studies | 6 total | 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 - English Concentration

55-59 Credits

LOWER DIVISION

18-19 Credits

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

One of the following two courses:

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

UPPER DIVISION

25 Credits

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

ENGLISH CONCENTRATION

12 Credits

Any combination of four 300- or 400-level English courses.

| | Course | Course Title | Credit | Grade |
|--|--------|--------------|--------|-------|
| | ENGL | | 3 | |
| | ENGL | | 3 | |
| | ENGL | | 3 | |
| | ENGL | | 3 | |