

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

## B.A. COMPUTER SCIENCE & COMPUTATIONAL THINKING

### Art 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"/>
Reasoning	Credits	Sem/Yr
PHIL 101 Reasoning	3	<input type="text"/>
First Year Seminar	Credits	Sem/Yr
193	3	<input type="text"/>
Communication & Speech	Credits	Sem/Yr
COMM 100 Communication & Speech	3	<input type="text"/>
Math	Credits	Sem/Yr
MATH (must be above Math 100)	3	<input type="text"/>
Scientific Inquiry (2cr + 1cr lab)	Credits	Sem/Yr
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"/>
Philosophy of Human Nature	Credits	Sem/Yr
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"/>
Ethics	Credits	Sem/Yr
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"/>
Literature	Credits	Sem/Yr
	3	<input type="text"/>
History	Credits	Sem/Yr
	3	<input type="text"/>
Fine Arts & Design	Credits	Sem/Yr
	3	<input type="text"/>

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

*Writing Enriched	Credits	Sem/Yr
	<b>9 total</b>	<input type="text"/>
Social Justice	Credits	Sem/Yr
	<b>3 total</b>	<input type="text"/>
*Global Studies	Credits	Sem/Yr
	<b>6 total</b>	<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"/>
<b>OR</b>			
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 & II	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)

#### ART CONCENTRATION

12-13 Credits

Course	Course Title	Credits	Grade
VART 101	Drawing I	3	<input type="text"/>

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

VART 112	Design	3	<input type="text"/>
VART 230	3-D Design	3	<input type="text"/>

#### One of the following five courses\*:

VART 141	Ceramics I	3	<input type="text"/>
VART 201	Drawing II	3	<input type="text"/>
VART 221	Painting I	3	<input type="text"/>
VART 350	Beginning Printmaking	3	<input type="text"/>
VART 351	Beginning Screenprinting	3	<input type="text"/>

**\*NOTE:** Some of these courses may have a pre-requisite. Check the undergraduate catalogue for course descriptions and pre-requisites.

#### One of the following Upper Division Art History courses:

VART 393	Modern Italian Art	3-4	<input type="text"/>
VART 394	Special Topics in Art History	3	<input type="text"/>
VART 395	Art in the 19th Century	3	<input type="text"/>
VART 396	Art in the 20th Century	3	<input type="text"/>
VART 397	Renaissance Art	3	<input type="text"/>
VART 398	Roman Art & Architecture	3	<input type="text"/>
VART 401	Renaissance Architecture	3	<input type="text"/>
VART 402	The Image of God	3	<input type="text"/>
VART 403/HIST 302	The Ancient City	3	<input type="text"/>
VART 404/HIST 307	Archaeology-Ancient Greece	3	<input type="text"/>
VART 405/HIST 308	Archaeology-Ancient Rome	3	<input type="text"/>
VART 406/HIST 366	American Culture & Ideas	3	<input type="text"/>
VART 407/WGST 350	Women Artists	3	<input type="text"/>
VART 408	History of Photography	3	<input type="text"/>