

# Computer Science General Course Plan

## Catalog Year 2019-2020

### Legend

**\* Major Requirement**

Must be taken to fulfill major requirements.

**† Major Elective**

Must be taken to fulfill major requirements, or replaced with an equivalent course.

**‡ Gen-Ed Requirement**

Must be taken to fulfill general education requirements.

**§ Elective**

Can be chosen from a selection of courses.

*See MyGFU for detailed academic requirements.*

### First Year

#### Fall Semester

Introduction to Computer Science I (CSIS 201) *	3 credits
Calculus I (MATH 201) *	4 credits
COMM GE Requirement ‡	3 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
I Believe (THEO 101) ‡	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>16 credits</b>

#### Spring Semester

Introduction to Computer Science II (CSIS 202) *	3 credits
GE Social Science ‡	3 credits
Natural Science GE Requirement ‡	4 credits
History/Politics/International Studies GE Requirement ‡	3 credits
I Believe (THEO 102) ‡	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>32 credits</b>

## Second Year

### Fall Semester

Data Structures and File Processing (CSIS 310) *	3 credits
Software Engineering (CSIS 321) *	3 credits
Discrete Mathematics (MATH 260) *	3 credits
Art, Beauty and Truth (HUMA 290) §	3 credits
Free Elective §	3 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>47 credits</b>

### Spring Semester

Analysis of Algorithms (CSIS 430) *	3 credits
Object-Oriented Design/Analysis (CSIS 370) *	3 credits
Philosophy and Literature (HUMA 205) ‡	3 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>62 credits</b>

## Third Year

### Fall Semester

Database Systems (CSIS 340) *	3 credits
Computer Architecture (CSIS 360) *	3 credits
Servant Engineering I (ENGR381) *	2 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
Bible/Religion Elective GE Requirement ‡	3 credits
Elective Credits §	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>78 credits</b>

### Spring Semester

Programming Languages (CSIS 420) *	3 credits
Operating Systems (CSIS 460) *	3 credits
Servant Engineering II (ENGR 382) *	2 credits
Intercultural GE Requirement ‡	3 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>95 credits</b>

## Fourth Year

### Fall Semester

CSIS Elective †	3 credits
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Senior Design I (ENGR481) *	1 credits
Engaging Christ in Transition (LIBA 400) ‡	3 credits
Electives §	6 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>111 credits</b>

### Spring Semester

CSIS Elective †	3 credits
Senior Design II (ENGR 482) *	3 credits
Electives §	9 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>126 credits</b>