

B.S. IN COMPUTER SCIENCE MAJOR w/ Minors: Sample 4-Year Plan (2025-2026)

FRESHMAN (28 hours)

Fall Semester (13 hours)	Spring Semester (15 hours)
<input type="checkbox"/> COR 1002 Gateway Seminar	<input type="checkbox"/> BBL 1013 Old Testament Survey
<input type="checkbox"/> EGL 1013 English I	<input type="checkbox"/> EGL 1023 English II
<input type="checkbox"/> MTH 1163 Calculus I	<input type="checkbox"/> Social Behavioral Science Elective* (3 hrs)
<input type="checkbox"/> CS 1382 Intro to CS/CYB/GD/AI	<input type="checkbox"/> CS 1513 Java Programming
<input type="checkbox"/> CS 1233 Object-Oriented Programming	<input type="checkbox"/> MTH 1153 Linear Algebra

SOPHOMORE (33 hours)

Fall Semester (18 hours)	Spring Semester (15 hours)
<input type="checkbox"/> BBL 1023 New Testament Survey	<input type="checkbox"/> HST 2023 Integrated Humanities II
<input type="checkbox"/> HST 2013 Integrated Humanities I	<input type="checkbox"/> Natural Science Elective II* (3 hours)
<input type="checkbox"/> Natural Science Elective I* (3 hours)	<input type="checkbox"/> EE 2213 Digital Electronics
<input type="checkbox"/> CS 2173 Computer Networking	<input type="checkbox"/> CS 2243 Data Structures and Algorithms
<input type="checkbox"/> CS 2823 C# & DotNet	<input type="checkbox"/> CS 2423 Web Applications
<input type="checkbox"/> MTH 2213 Discrete Mathematics	

JUNIOR (32 hours)

Fall Semester (18 hours)	Spring Semester (14 hours)
<input type="checkbox"/> BBL 2013 Evangelical Theology	<input type="checkbox"/> BBL 2022 Christian Formation
<input type="checkbox"/> CYB 7103 Cybersecurity Foundations	<input type="checkbox"/> Whole Person Wellness Elective* (2 hrs)
<input type="checkbox"/> CS 3213 CA/OS	<input type="checkbox"/> EN 3222 Collaborative Design Lab
<input type="checkbox"/> CS 3363 Database Design	<input type="checkbox"/> CS 3533 Software Engineering
<input type="checkbox"/> Minor/Elective* (3 hours)	<input type="checkbox"/> Minor/Elective* (3 hours)
<input type="checkbox"/> Minor/Elective* (3 hours)	

SENIOR (30 hours)

Fall Semester (15 hours)	Spring Semester (15 hours)
<input type="checkbox"/> Arts & Humanities Elective* (3 hours)	<input type="checkbox"/> Arts/Hum or Social/Behavioral Elec* (3 hrs)
<input type="checkbox"/> Intercultural Engagement Elective* (3 hrs)	<input type="checkbox"/> CS 4523 Capstone II
<input type="checkbox"/> CS 4513 Capstone I	<input type="checkbox"/> Minor/Elective* (3 hours)
<input type="checkbox"/> Minor/Elective* (3 hours)	<input type="checkbox"/> Minor/Elective* (3 hours)
<input type="checkbox"/> Minor/Elective* (3 hours)	<input type="checkbox"/> Minor/Elective* (3 hours)

Revised 2/21/25

*See the Academic Catalog for the list of classes that meet this criteria.

(Minors as necessary to complete the minimum of 120 hours total) – please turn over the page for Minor courses

MINORS for BS – Computer Science
(Opt for at least one of the following Minors) - 18 hours

Artificial Intelligence

- ☐ CS 1233 OOP
- ☐ CS 2243 Data Structures
- ☐ CS 3643 Artificial Intelligence
- ☐ CS 3773 Big Data & Cloud Computing
- ☐ CS 4023 Advanced Computing Concepts
- ☐ CYB 7103 Cybersecurity Foundations

Full Stack Development

- ☐ CS 1233 OOP
- ☐ CS 2423 Web Applications
- ☐ CYB 7103 Cybersecurity Foundations (Online)
- ☐ CS3683 Advance Java Programming
- ☐ CS3473 Advanced Web Applications
- ☐ CS4083 Software Testing & Quality Assurance

Cybersecurity

- ☐ CS 1113 Intro to Computing

Any ONE

- ☐ BUS 2193 Business Statistics (On Campus and Online)
- ☐ MTH 1003 Introduction to Statistics (On Campus and Online)
- ☐ MTH 2103 Applied Statistics for Scientists (On Campus)

Any FOUR

- ☐ CYB 7103 Cybersecurity Foundations (Online)
- ☐ CYB 7223 Network and Cloud Security (Online)
- ☐ CYB 7233 Information Technology Risk Management (Online)
- ☐ CYB 7243 Web Application Security (Online)
- ☐ CYB 7433 Incident Management (Online)

Game Design Minor

- ☐ ART 1123 Computer Graphics
- ☐ CS 1113 Introduction to Computing
- ☐ CS 3333 Game Design 1
- ☐ CS 3343 Game Design 2
- ☐ EGL 2273 Introduction to Creative Writing

Any One

- ☐ ART 2273 3D Modeling for Designers & Illustrators
- ☐ ART 2613 Digital Illustration

Data Analytics

Any One

- ☐ CS 1113 Intro to Computing
- ☐ CS 1233 Object Oriented Programming

Any One

- ☐ BUS 2193 Business Statistics
- ☐ MTH 1003 Introduction to Statistics
- ☐ MTH 2103 Applied Statistics for Scientists

Any TWO

- ☐ DAT 3113 Basic Data Analytics
- ☐ DAT 4253 Business Decision Modeling & Predictive Analysis
- ☐ DAT 4313 Data Visualization

Any TWO

- ☐ CS 2243 Data Structures and Algorithms
- ☐ CS 3363 Database Design
- ☐ CS 3643 Artificial Intelligence
- ☐ CS 3773 Big Data & Cloud Computing