

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"/> EGL 1013 English I <input type="checkbox"/> MTH 1163 Calculus I <input type="checkbox"/> CS 1382 Intro to CS/CYB/GD/AI <input type="checkbox"/> CS 1233 Object-Oriented Programming	<input type="checkbox"/> BBL 1013 Old Testament Survey <input type="checkbox"/> EGL 1023 English II <input type="checkbox"/> Social Behavioral Science Elective* (3 hrs) <input type="checkbox"/> CS 1513 Java 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 2013 Integrated Humanities I <input type="checkbox"/> Natural Science Elective I* (3 hours) <input type="checkbox"/> CS 2173 Computer Networking <input type="checkbox"/> CS 2823 C# & DotNet <input type="checkbox"/> MTH 2213 Discrete Mathematics	<input type="checkbox"/> HST 2023 Integrated Humanities II <input type="checkbox"/> Natural Science Elective II* (3 hours) <input type="checkbox"/> EE 2213 Digital Electronics <input type="checkbox"/> CS 2243 Data Structures and Algorithms <input type="checkbox"/> CS 2423 Web Applications

JUNIOR (32 hours)

Fall Semester (18 hours)	Spring Semester (14 hours)
<input type="checkbox"/> BBL 2013 Evangelical Theology <input type="checkbox"/> CYB 7103 Cybersecurity Foundations <input type="checkbox"/> CS 3213 CA/OS <input type="checkbox"/> CS 3363 Database Design <input type="checkbox"/> Minor/Elective* (3 hours) <input type="checkbox"/> Minor/Elective* (3 hours)	<input type="checkbox"/> BBL 2022 Christian Formation <input type="checkbox"/> Whole Person Wellness Elective* (2 hrs) <input type="checkbox"/> EN 3222 Collaborative Design Lab <input type="checkbox"/> CS 3533 Software Engineering <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"/> Intercultural Engagement Elective* (3 hrs) <input type="checkbox"/> CS 4513 Capstone I <input type="checkbox"/> Minor/Elective* (3 hours) <input type="checkbox"/> Minor/Elective* (3 hours)	<input type="checkbox"/> Arts/Hum or Social/Behavioral Elec* (3 hrs) <input type="checkbox"/> CS 4523 Capstone II <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

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

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

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

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)