B.S. IN COMPUTER SCIENCE MAJOR w/ Minors: Sample 4-Year Plan (2024-2025)

FRESHMAN (29 hours)

Fall Semester (14 hours)	Spring Semester (15 hours)
☐ COR 1002 Gateway Seminar	☐ BBL 1013 Old Testament Survey
☐ EGL 1013 English I	☐ EGL 1023 English II
☐ MTH 1163 Calculus I	☐ Social Behavioral Science Elective* (3 hrs)
☐ EN 1112 Intro to Engineering/CS	☐ CS 1513 Java Programming
☐ CS 1233 Object-Oriented Programming	☐ MTH 1153 Linear Algebra

SOPHOMORE (33 hours)

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

JUNIOR (30 hours)

Fall Semester (15 hours)	Spring Semester (15 hours)
☐ BBL 2013 Evangelical Theology	☐ BBL 2022 Christian Formation
☐ CS 3213 CA/OS	☐ Whole Person Wellness Elective* (2 hrs)
☐ CS 3363 Database Design	☐ Statistics Elective* (3 hrs)
☐ Minor/Elective* (3 hours) - *Adv. Web App*	☐ EN 3222 Collaborative Design Lab
☐ Minor/Elective* (3 hours) – *Artifi. Intel.*	☐ CS 3533 Software Engineering
	☐ Minor/Elective* (3 hrs) – *Machine Learning*

SENIOR (30 hours)

Fall Semester (15 hours)	Spring Semester (15 hours)
☐ Arts & Humanities Elective* (3 hours)	☐ Arts/Hum or Social/Behavioral Elec* (3 hrs)
☐ Intercultural Engagement Elective* (3 hrs)	☐ EN 4123 Capstone II
☐ EN 4113 Capstone I	☐ Minor/Elective* (3 hours)
☐ Minor/Elective* (3 hours) – *Adv Java*	☐ Minor/Elective* (3 hours) – *Adv. Comp. Conc*
☐ Minor/Elective* (3 hours) – *BigData/Cloud*	☐ Minor/Elective* (3 hrs) – *Software Tstg & QA*

Revised 4/18/23

*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 (Online)

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