

B.A. IN COMPUTER SCIENCE MAJOR: 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 (31 hours)

Fall Semester (15 hours)	Spring Semester (16 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"/> HST 2023 Integrated Humanities II <input type="checkbox"/> Natural Science Elective II* (4 hours w/lab) <input type="checkbox"/> CS 2243 Data Structures and Algorithms <input type="checkbox"/> CS 2423 Web Applications <input type="checkbox"/> Minor/Elective* (3 hours)

JUNIOR (31 hours)

Fall Semester (15 hours)	Spring Semester (16 hours)
<input type="checkbox"/> BBL 2013 Evangelical Theology <input type="checkbox"/> Statistics Elective* (3 hours) <input type="checkbox"/> CS 3363 Database Design <input type="checkbox"/> MTH 2213 Discrete Mathematics <input type="checkbox"/> CYB 9103 Cybersecurity Foundations	<input type="checkbox"/> BBL 2022 Christian Formation <input type="checkbox"/> Whole Person Wellness Elective* (2 hrs) <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"/> Intercultural Engagement Elective* (3 hrs) <input type="checkbox"/> Minor/Elective* (3 hours) <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"/> 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 12/06/23

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

(**Technical Electives & Minors as necessary to complete the minimum of 120 hours total**) – please turn over the page for Technical Elective Courses

Technical Electives - 9 hours

Nine hours from the following; all course prerequisites must be met.

- CS 3213 Computer Architecture & Operating System (On Campus)
- CS 3231 Selected Topics (On Campus)
- CS 3232 Selected Topics (On Campus)
- CS 3233 Selected Topics (On Campus)
- CS 3333 Game Design I (On Campus)
- CS 3343 Game Design II (On Campus)
- CS 3443 Machine Learning (On Campus)
- CS 3473 Advanced Web Applications (On Campus)
- CS 3643 Artificial Intelligence (On Campus)
- CS 3683 Advanced JAVA Programming (On Campus)
- CS 3743 Advanced Computer Programming (On Campus)
- CS 3773 Big Data & Cloud Computing (On Campus)
- CS 4083 Software Testing & Quality Assurance (On Campus)
- 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)
- EE 3123 Embedded Systems (On Campus)
- EN 3222 Collaborative Design Lab (On Campus)

Note: A minimum grade of 'C/2.0' or better must be earned in graduate level courses to count towards a master's degree at JBU.