

## 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"/> 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"/> <b>CS 1382 Intro to CS/CYB/GD/AI</b>	<input type="checkbox"/> <b>CS 1513 Java Programming</b>
<input type="checkbox"/> <b>CS 1233 Object-Oriented Programming</b>	<input type="checkbox"/> <b>MTH 1153 Linear Algebra</b>

### SOPHOMORE (31 hours)

Fall Semester (15 hours)	Spring Semester (16 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* (4 hours w/lab)
<input type="checkbox"/> Natural Science Elective I* (3 hours)	<input type="checkbox"/> <b>CS 2243 Data Structures and Algorithms</b>
<input type="checkbox"/> <b>CS 2173 Computer Networking</b>	<input type="checkbox"/> <b>CS 2423 Web Applications</b>
<input type="checkbox"/> <b>CS 2823 C# &amp; DotNet</b>	<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"/> BBL 2022 Christian Formation
<input type="checkbox"/> Statistics Elective* (3 hours)	<input type="checkbox"/> Whole Person Wellness Elective* (2 hrs)
<input type="checkbox"/> <b>CS 3363 Database Design</b>	<input type="checkbox"/> <b>CS 3533 Software Engineering</b>
<input type="checkbox"/> <b>MTH 2213 Discrete Mathematics</b>	<input type="checkbox"/> Minor/Elective* (3 hours)
<input type="checkbox"/> <b>CYB 9103 Cybersecurity Foundations</b>	<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"/> 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)
<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

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**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.**