

COMPUTER SCIENCE MAJOR (B.S.)

Purpose

The Computer Science (CS) major is offered by the School of Business with the purpose of developing Christ-centered men and women with the values, knowledge, and skills essential to impact computing-related disciplines in tomorrow's world.

Students are exposed to the computer science core body of knowledge from a Christian worldview. Equipped with a firm foundation in algorithms and problem solving, they learn to analyze problems and design, implement, and test software solutions. Students also develop a strong background in mathematics to cultivate their reasoning abilities. Faculty help students prepare for a lifetime of service while encouraging undergraduate research and effective application of technology from a Christian worldview.

Program Learning Outcomes

The student will be able to:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.
- Conduct best practices in Computer Sciences while maintaining a Christian worldview.

Program Educational Objectives

Our goal is, within a few years of graduating, our Computer Science students will be able to:

1. Apply innovation, entrepreneurial activities, and contributions to the discipline of computer science.
2. Identify and document requirements, develop designs, as well as implement and validate quality computer science solutions.
3. Exhibit a commitment to continuous life-long learning.
4. Apply leadership skills in obtaining mission objectives and training the workforce.

Programs of Study

Delivery Format: Residential Only

- Computer Science (B.S.) - Cyber Security - Resident
- Computer Science (B.S.) - Data Science - Resident
- Computer Science (B.S.) - General - Resident

- Computer Science (B.S.) - Software Engineering - Resident
- Computer Science (B.S.) - Web & Mobile Programming - Resident

Career Opportunities

- Computer Engineers
- Computer Programmers
- Computer Scientists
- Database Administrators
- Operations Research
- Systems Analysts
- Teaching in Private Schools & Public Schools