

2021-22 ACADEMIC CATALOG



Midway University Course Catalog - Computer Science

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Computer Science

Computer Science - Bachelor of Science in Computer Science

Type:Major

The computer science program at Midway University seeks to prepare students to not only acquire jobs in the technology sector, but also be prepared to grow, learn and adapt to new opportunities in their careers. We recognize that the field of computer technology is rapidly changing and constantly evolving. As such, we will create an industry advisory board to assist in maintaining relevance in our program and currency in our curriculum. We strive to prepare graduates that will be able to retool and utilize new technology to help the organizations for which they work.

Program Learning Outcomes

- Equip students with skills and techniques to successfully create efficient and effective programs.
- Analyze data needs of an organization and model, build, and query databases that support decision making.
- Safeguard information within organizations through programming design, practices, and policy.
- Expose students to emerging topics in the field of information technology.

Requirements

Major Course Requirements

Calculus I - 4 hours

Discrete Mathematics - 3 hours

Fundamentals of Ethical Leadership - 3 hours
Accounting Information Systems - 3 hours
Intro to Computer Science - 3 hours
Computer Programming I - 3 hours
Computer Programming II - 3 hours
Database Systems - 3 hours
Human Computer Interaction - 3 hours
Platform Technologies - 3 hours
Networking - 3 hours
Cybersecurity - 3 hours
Mobile Computing - 3 hours
Emerging Technologies - 3 hours
Capstone - 3 hours
Internship - 3 hours

Select one of the following course sequences

Physics I - 3 hours
Physics Laboratory I - 1 hour
Physics for Engineers I - 4 hours
Physics for Engineers I Lab - 1 hour
General Education Hours - 37-40
Elective Hours - 26-29
Total Hours to Complete - 120

`#{majorMinorDetails}`

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Midway University

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