**CONCENTRATION IN COMPUTER SCIENCE**

The concentration in computer science emphasizes issues in computing, with an emphasis on the development of technical skills and understanding. Graduates are prepared to enter computer software development positions as well as positions in information technology management.

The objectives of the Carroll School concentration in computer science are to:

- Develop an advanced understanding of current technologies.
- Develop a deep understanding of how to most effectively apply current and developing technologies.
- Consider the implications of developing, purchasing, or outsourcing information systems components.
- Appreciate the ethical and broader issues arising from the use of current and developing technologies.

**REQUIRED COURSES**

The computer science concentration consists of five courses (either 15 or 16 credits).

The requirements are:

- **csci1101** Computer Science I (3 credits)
  OR **csci1103** Computer Science I Honors (3 credits)
- **csci1102** Computer Science II (3 credits)
- One elective: **csci12000** or higher (3 credits)
- One elective: **csci13000** or higher (3 credits)
- **csci12271** Computer Systems (3 credits)
  OR **csci12272** Computer Organization with Lab (4 credits)
  OR one additional elective **csci13000** or higher (3 credits)

The Computer Science Department offers a diverse array of upper-level electives. Students are encouraged to take additional computer science courses.

**CAREERS**

Careers available to computer science concentrators dominate the U.S. Bureau of Labor Statistics list of fastest growing occupations. Information systems and computer science professionals pursue a broad array of careers, from the highly technical to those which bridge the gap between the people who program information systems and the people who use them.

Computer science concentrators have careers in business, consulting, and government. Excellent job prospects are expected as organizations continue to adopt increasingly sophisticated technologies. Technology careers often give professionals a broad and deep exposure to a firm and its customers, providing exceptional training for future executive leadership. At higher levels within a firm, job titles include Director of MIS, Vice President of Information Technology, Chief Information Officer, Chief Knowledge Officer, and Chief Technology Officer.

**STUDY ABROAD**

Computer science students are encouraged to study abroad for a semester during their junior year. All students wishing to study abroad must first meet with an advisor from the Office of International Programs. If accepted into the study abroad program and approved by Richard Keeley, Senior Associate Dean of the Undergraduate Program, the student should then see the Computer Science Director of the Undergraduate Program for course approvals before going abroad. When students wish to have a course considered they should email or bring a copy of the syllabus and course description for approval.

All approvals must be obtained prior to going abroad. No approvals will be granted after the course has been completed.

**FOR MORE INFORMATION**

Interested students are encouraged to seek advice from the department, either for help with course selection or to discuss the differences between the computer science and information systems concentrations.

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