

# COTTEY

## What Can I Do With A Major In . . . ?

# Computer Science

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Computer science is concerned with the structures and procedures necessary to acquire, represent, organize, store, retrieve and disseminate information. It also focuses on the design, analysis, implementation, testing and modification of computer software in individual and networked computer systems. Computer science degree programs study problem-solving techniques, develop problem-solving ability, study computer programming language environments, software methods and tools, computer systems architectures, and general theories in computer science. Study in computer science provides the foundation for diverse occupations in the computer industry to include software engineering, artificial intelligence, computer systems software, operating systems and data communication. A major emphasis in computer science is on software design methodology and tools, algorithms, and data structures.

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### IS THIS MAJOR FOR YOU?

*You might like this major if you also like:* mathematical and logical puzzles; giving precise and elegant explanations for how things work; and building mechanical or electronic gadgets

*Consider this major if you are good at:* active listening; attention to detail; creativity; critical reading/thinking; math; quantitative analysis; research; and teamwork

### EMPLOYMENT SETTINGS

- Secondary Schools
- Colleges and universities
- Laboratories
- Government and non-profit agencies
- Financial institutions
- Computer manufacturers
- Electronic equipment manufacturers

### SAMPLE OCCUPATIONS

- Database Administrators
- Computer and Information Scientists
- Computer Specialists
- Network Systems and Data Communication Analysis
- Software Engineer
- System Analyst and Design
- Artificial Intelligence
- Technical Consulting and Marketing

### ACADEMIC ASSISTANCE CENTER RESOURCES

*Great Jobs for Computer Science Majors*

*Careers in Computers*

*Careers in the Computer Field*

*Career Opportunities in Computers and Cyberspace*

### TYPICAL COURSES IN THIS MAJOR

- Introduction to Computer Science
- Introduction to Programming
- Data Structures
- Calculus I, II
- Algorithms
- Operating Systems
- Systems Analysis and Design
- Software Engineering
- Programming Languages

### OTHER MAJORS YOU MIGHT LIKE

- Digital Media
- Software Engineering
- Computer Engineering Technology
- Electrical and Communications Engineering

### WEBSITES TO VISIT

Association for Computer Machinery  
[www.acm.org](http://www.acm.org)

The Institute of Electrical and Electronics Engineers  
[www.ieee.org](http://www.ieee.org)

American Association for Artificial Intelligence  
[www.aaai.org](http://www.aaai.org)

*For more information on this and other majors, visit the Transfer and Career Planning Office located in the Academic Assistance Center, RBAC 164, ext. 2132.*