

## What Can I Do With a Major in **COMPUTER SCIENCE**?

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Computer Science is the systematic study of computing systems and computation. The body of knowledge resulting from this discipline contains theories for understanding computing systems and methods; design methodology, algorithms, and tools; methods for the testing of concepts; methods of analysis and verification; and knowledge representation and implementation.

### **Typical Coursework**

Analysis of Algorithms	Database Systems
Calculus	Introduction to Computer Science
Computer Architecture	Operating Systems
Computer Graphics	Programming Languages
Computer Networks	Software Engineering
Computer Organization	Statistics

### **Related Major Skills**

Abstract and Formal Reasoning	Programming Language Concepts
Knowledge of Operating Systems	Multi-tasking
Testing	Analyzing
Mathematical Skills	Problem-solving
Organizing / Simplifying	Logical Thinking
Detail-oriented	Thoroughness
Work independently and in teams	Advanced Quantitative Abilities
Statistical Analysis	Designing Systems
Written and oral communication skills	Marketing concepts
Research	Classifying / Systemizing
Efficiency	Systematic
Critical Thinking	JavaScript

### **Directly Related Occupations**

Computer & Information Systems Manager	Computer Systems Administrator
Computer Engineer	Computer Systems Analyst
Computer Programmer	Database Administrator
Computer Security Specialist	Software Development Specialist
Computer Support Specialists	Technical Writer
Internet Programming	

### **Who Hires for this Occupation?**

Business management and support services, computer systems design companies, information services companies, finance & insurance companies, colleges & universities, federal, state & local government agencies, information & internet organizations, and software & computer service organizations.

## **Minnesota Colleges & Universities with a major in COMPUTER SCIENCE**

Anoka-Ramsey Community College	Minnesota State Univ., Moorhead
Augsburg College	Saint John's University
Bemidji State University	Saint Mary's University of MN, Winona
Bethel University	Southwest Minnesota State University
Carleton College	St. Cloud State University
College of Saint Benedict	St. Olaf College
College of St. Scholastica	University of MN, Duluth
Concordia College	University of MN, Morris
Gustavus Adolphus College	University of MN, Twin Cities
Macalester College	University of St. Thomas
Metropolitan State University	Winona State University
Minnesota State Univ., Mankato	

## **Professional Association Links**

Association for Women in Computing, <http://www.awc-hq.org/home.html>  
The Computing Research Association, <http://cra.org/>  
Computer Technology Industry Association, <http://certification.comptia.org/ExploreCareers.aspx/>  
IEEE Computer Society, <http://www.computer.org/portal/web/guest/home>  
Internet Society, <http://www.internetsociety.org>  
LISA Special Interest Group, <https://www.usenix.org/lisa>

## **For More Information**

Contact ARCC Career Counseling: (763) 433-1240 (CR campus), (763) 433-1840 (Cambridge campus)  
or stop by the campus Information Desk

**Information adapted from:** Minnesota Career Information System <https://mncis.intocareers.org>, and the Career Center at the University of North Carolina, Wilmington <http://uncw.edu/career/WhatCanIDoWithaMajorIn.html>