

## 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  
Calculus  
Computer Architecture  
Computer Graphics  
Computer Networks  
Computer Organization

Database Systems  
Introduction to Computer Science  
Operating Systems  
Programming Languages  
Software Engineering  
Statistics

### **Related Major Skills**

Abstract and Formal Reasoning  
Knowledge of Operating Systems  
Testing  
Mathematical Skills  
Organizing / Simplifying  
Detail-oriented  
Work independently and in teams  
Statistical Analysis  
Written and oral communication skills  
Research  
Efficiency  
Critical Thinking

Programming Language Concepts  
Multi-tasking  
Analyzing  
Problem-solving  
Logical Thinking  
Thoroughness  
Advanced Quantitative Abilities  
Designing Systems  
Marketing concepts  
Classifying / Systemizing  
Systematic  
JavaScript

### **Directly Related Occupations**

Computer & Information Systems Manager  
Computer Engineer  
Computer Programmer  
Computer Security Specialist  
Computer Support Specialists  
Internet Programming

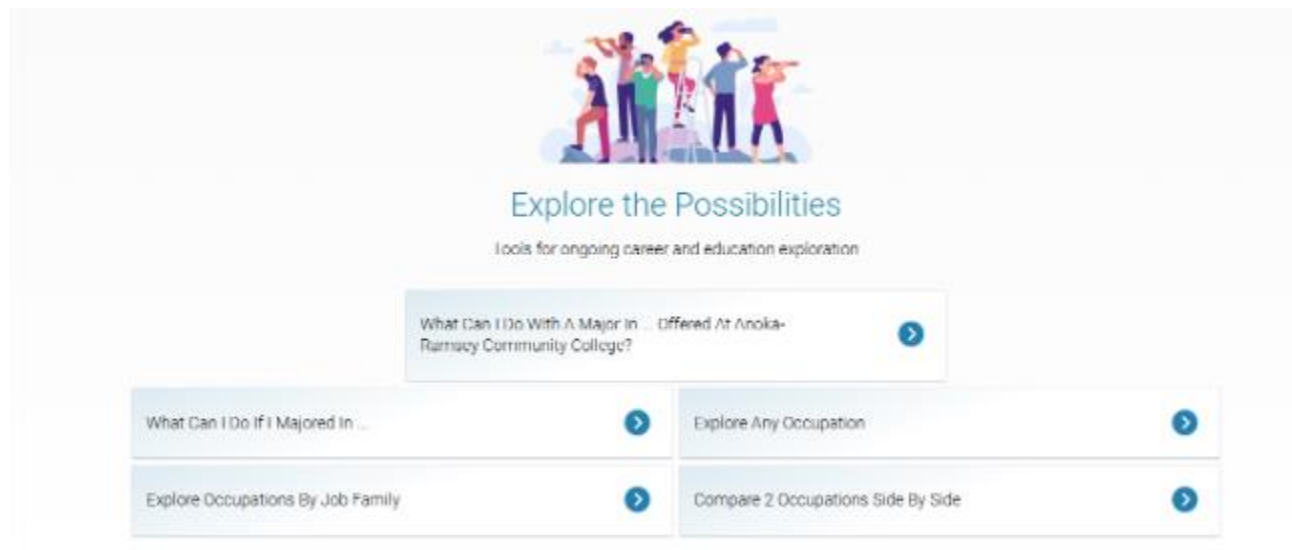
Computer Systems Administrator  
Computer Systems Analyst  
Database Administrator  
Software Development Specialist  
Technical Writer

### **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.

## **Focus2**

Visit **FOCUS2** (use ARCC credentials to sign-in) for more information regarding **related occupations and average salaries** and explore **other related majors**. You can also take **assessments** to match your skills, interests, and values to potential careers and majors.



## **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	

\*Anoka-Ramsey Community College offers a [Computer Science Transfer Pathway Associate of Science Degree](#) with course credits that directly transfer to designated Computer Science Bachelor's Degree programs at Minnesota State System Universities.

^Anoka-Ramsey Community College offers related degrees and certificates: [Computer Networking AS](#), [Computer Programming Certificate](#), [Cybersecurity AS](#), [Network Security Certificate](#), [Network Support and Administration Certificate](#) and [System Administration, AAS](#).

Search for majors and colleges at [Minnesota State System Colleges and University](#)

## **Professional Association Links**

[Association for Women in Computing](#)

[The Computing Research Association](#)

[Computer Technology Industry Association](#)

[IEEE Computer Society](#)

[Internet Society](#)

[LISA Special Interest Group](#)

## **For More Information**

Contact ARCC Counseling (Coon Rapids and Cambridge) at (763) 433-1100 or stop by the campus Information Desk

*Information adapted from:*

[Minnesota Career Information System](#)

[Occupational Outlook Handbook](#)

[Focus2](#)

[Career Center at the University of North Carolina at Wilmington](#)