

# Century College Computer Science Information Sheet

## Computer Science – Overview

In a nutshell, Computer Science is an academic field that studies how information systems work, how to make them (and make them work better) and how to use them. The emphasis is teaching students on how information systems work, and students are first given a broad foundation of conceptual knowledge. This is both because the field is becoming increasingly complex but also because of a philosophy that *“If you know how it works, you’ll know how to use it!”*.

One of the great things about Computer Science is that it allows graduates to go into so many different fields. Students with a 4-year degree can pursue employment and research in:

- Software developer
- Web developer
- Mobile app developer
- Database Administrator
- Cybersecurity
- Data Analytics
- Network administrator
- Cloud Computing
- Computer Engineering
- Artificial Intelligence
- Neural networks

## Awards

### **AS Degree - Computer Science Transfer Pathway (60 credits)**

This degree has been designed so that students completing it can transfer to any of the seven Minnesota State universities enter the university with junior-year status. All courses in the Transfer Pathway associate degree will directly transfer and apply to the designated bachelor’s degree programs in a related field. This degree also transfers to the University of Minnesota and University of Wisconsin River Falls

### **AS Degree – Computer Information Systems (60 credits)**

This degree is like the Computer Science AS and includes many of the same courses. It differs in that is more applied and requires less mathematics. It is also more flexible in allowing more electives. The degree also has good transferability to Minnesota State universities, the University of Minnesota and the University of Wisconsin River Falls. It is the preferred degree for students who wish to transfer to either the CIT or CAP degrees at Metro State.

### **Certificate – Internet Programming (15 credits)**

This certificate will provide the student with the knowledge to create a sophisticated, secure, multi-tiered Internet application. Essential programming, database and security concepts and techniques will be presented such that graduates will be able to analyze requirements and then design and develop a database-driven, interactive, client-server web application.

### **Certificate - Cross-Platform Mobile Development (20)**

This certificate prepares students to develop both platform-specific and cross-platform mobile applications. Students who complete the certificate will be able to create applications that are optimized to run natively on the major mobile systems such as IOS and Android. Students will also be able to create cross-platform applications that will run uniformly and consistently on multiple systems.

## University Partnerships

The Century College Computer Science Department has strong partnerships with the Computer Science Departments at most MN four-year colleges and universities. Century Computer Science students are well prepared to transfer to degrees at these institutions.

### **Metropolitan State Information - Computer Science and Cybersecurity**

- Computer Application Development BAS
- Computer Information Technology BS
- Computer Science BS
- Cybersecurity BS
- Data Science BS

### **University of Minnesota – Computer Science**

- Computer Science BS, BA
- Computer Engineering BS

### **University of Minnesota – College of Continuing and Professional Studies**

- Information Technology Infrastructure BAS
  - Data Management
  - Data Science
  - Development and Operations
  - Networking
  - Security
  - Systems

### **University of Wisconsin River Falls – Computer Science and Information Systems**

- Computer Science and Information Systems Bachelors BS
  - CSCI and IS options
- Data Science and Predictive Analytics Bachelors BS

### **University of Minnesota, Duluth – Computer Science**

- Computer Science BS, BA

### **Saint Cloud State University – Computer Science**

- Computer Science BS
- Cybersecurity BS
- Software Engineering BS

### **Minnesota State, Mankato – Computer Information Sciences**

- Computer Application Development BA

## Century College Contacts | Information

### Web Page

Century College CSCI Page

<https://www.century.edu/programs/computer-science>

### Faculty

Zakaria Baani

M.S. Metropolitan State, CSCI

W 3077, 651-779-3945

[zakaria.baani@century.edu](mailto:zakaria.baani@century.edu)

Robert Niemann

M.S. University of Minnesota, CSCI

W 3075, 651-779-3252

[robert.niemann@century.edu](mailto:robert.niemann@century.edu)

Mathew Sanders

M.S. University of Minnesota, CSCI

W 3076, 651-779-3490

[matthew.sanders@century.edu](mailto:matthew.sanders@century.edu)

Lisa Minogue

M.S. CSCI

W3073, 651-779-3960

[lisa.minogue@century.edu](mailto:lisa.minogue@century.edu)

### Advisors

Michele Jersak, Counselor

651-779-3221

[michele.jersak@century.edu](mailto:michele.jersak@century.edu)

David Her, Academic Advisor

651-444-2065

[david.her@century.edu](mailto:david.her@century.edu)

Janet Vermeersch, Academic Advisor

651-444-2066

[janet.vermeersch@century.edu](mailto:janet.vermeersch@century.edu)

Farrah Fossum, Academic Advisor

651-444-2064

[farrah.fossum@century.edu](mailto:farrah.fossum@century.edu)