COMPUTER SCIENCE

The Computer Science major prepares graduates for positions in computer-related fields and for graduate study. Computer science as a field spans a wide range of topics, from theoretical and algorithmic foundations to cutting-edge developments in artificial intelligence, data science, robotics, cloud computing, and enterprise and consumer software.

PROGRAMS

DEGREES AND CERTIFICATES

- Bachelor of Science in Computer Science
- Computer Science Minor

ABOUT THE PROGRAM

Minnesota State Mankato's upper-division Computer Science program is entirely project-based. During junior and senior year, students complete four real-world industry projects, working with real industry partners, as they learn computer science by doing computer science.

REAL-WORLD CONNECTIONS

SKILLS AND TALENTS

- Design Thinking and Problem-Solving
- Programming and Systems Development
- Data Analysis and Management
- Real-World Software Deployment
- Project and Client Management
- Technical Communication

CAREERS

- Software Engineer
- Software Architect/Designer
- Data Scientist
- Data Engineer
- Cloud Computing Engineer
- Web/Mobile App Developer

EMPLOYERS

- LinkedIn
- Microsoft
- Novus Media
- Regis Corporation
- IBM
- Early Stage AI Companies

INSPIRED ACTION

EMPLOYMENT RATE

100%

of program graduates begin their careers within one year of graduation.

Graduates: 1
Respondents: 1
link.mnsu.edu/graduate-follow-up

MEDIAN SALARY

$145,080

The median annual wage for Computer and Information Research Scientists in May 2023.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Computer and Information Research Scientists, at link.mnsu.edu/computer-science-salary

PROGRAM WEBSITE

cset.mnsu.edu/cis

SAMPLE FOUR-YEAR PLAN - COMPUTER SCIENCE, BS

First Year (Fall)	First Year (Spring)
ENG 101 Foundations of Writing & Rhetoric (4) Math 121 Calculus I (4) CIS 121 Introduction to Programming (4) General Education Course (3)	CIS 122 Data Structures (4) MATH 122 Calculus II (4) General Education Course (3) Elective Course in Major (3)
Second Year (Fall)	**Second Year (Spring)**
CIS 224 Computer Architecture (4) Math 247 Linear Algebra (1) General Education Course (3) Elective Course in Major (4)	COMM 102 Public Speaking (4) OR ENG 271W Technical Communication (4) CIS 223 Algorithms (4) MATH 280 Discrete Math for CS I (4) General Education Course (3)
Third Year (Fall)	**Third Year (Spring)**
CIS 301 CS Core: Programming Languages (4) CIS 302 CS Core: Software Engineering & Parallel Computing (4) Math 380 Discrete Mathematics for Computer Science II (4) CS 391W Computer Science Project (1) CS 495 Seminar (4) General Education Course (3)	CS 303 CS Core: Programming Languages (2) CS 304 CS Core: Databases & Information Security (2) MATH 354 Concepts of Probability & Statistics (4) CS 392W CS Project II (4) CS 495 Seminar (4) Elective Course in Major (2)
Fourth Year (Fall)	**Fourth Year (Spring)**
491W Computer Science Capstone 1 (4) CS 495 Seminar (4) Elective Course in Major (2) Elective Course in Major (2) Elective Course in Major (2) General Education Course (3) General Education Course (2)	CS 492W CS Capstone Project II (4) CS 495 Seminar (4) General Education Course (2) General Education Course (2) Elective Course in Major (2) Elective Course in Major (2)

For more information about program requirements, visit:
mnsu.edu/academics/academic-catalog

LEARN MORE

Department of Computer Information Science
273 Wissink Hall
507-389-1412

NOTES