

Computer Science Program Mission Statement

In accord with the mission of Southwest Minnesota State University and the mission of the Department of Mathematics and Computer Science it is the mission of the Computer Science program to offer courses and other services to individuals and organizations within our service region. These courses and other services will develop the computer science content knowledge, skills, and attitudes that will best prepare participants for future endeavors.

Computer Science Program Goals and Student Learning Outcomes

Towards achieving its stated mission, the program sets forth the following goals and outcomes.

Goal 1: Students will understand how computer systems work in detail.

Outcome 1.1: Students will demonstrate knowledge and understanding of the essential core content of the discipline of Computer Science and the ability to use that knowledge in the creation of solutions to practical problems.

Goal 2: Students will apply their knowledge to solve problems algorithmically.

Outcome 2.1: Students will demonstrate the ability to apply content-knowledge in the specification, analysis, design, implementation and testing of a software solution.

Outcome 2.2: Students will exhibit the ability to learn and apply new technologies as they are developed.

Goal 3: Students will express ideas logically and clearly.

Outcome 3.1: Students will demonstrate the ability to effectively communicate Computer Science concepts both orally and in writing.

Outcome 3.2: Students will exhibit the ability to work effectively with others as leaders or members of a project team.

Goal 4: Students will work ethically and responsibly.

Outcome 4.1: Students will demonstrate an understanding of the ethical standards promulgated by various professional computer societies.