Computer Science Major, BS

Student Learning Outcomes

Students will:

• have the ability to use current techniques, skills, and tools necessary for computing practice;

• recognize the need for, and will have the ability to engage in, continuing professional development;

• have the ability to analyze the local and global impact of computing on individuals, organizations, and society;

• have the ability to communicate effectively with a range of audiences;

• have an understanding of professional, ethical, legal, security, and social issues and responsibilities;

• have the ability to function effectively on teams to accomplish a common goal;

• have the ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs;

• have the ability to analyze a problem and identify and define the computing requirements appropriate to its solution;

• have the ability to apply knowledge of computing and mathematics appropriate to the discipline;

• have the ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices;

• Students will have the ability to apply design and development principles in the construction of software systems of varying complexity.