

## Program Educational Objectives and Student Outcomes

### Program Educational Objectives

The graduates of the Computer Science program will have the following characteristics 3 to 5 years after graduation:

- Establish a successful career utilizing their education in Computer Science or engage in advanced studies.
- Communicate effectively in both written and oral forms across all levels of computing practice.
- Engage in lifelong learning to stay current with their profession as it changes.
- Demonstrate professional competence, integrity and responsibility in diverse work environments.

### Student Outcomes

By the time of graduation, student outcomes should include the following.

- A. An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- B. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- C. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- D. An ability to function effectively on teams to accomplish a common goal
- E. An understanding of professional, ethical, legal, security and social issues and responsibilities.
- F. An ability to communicate effectively with a range of audiences.
- G. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
- H. Recognition of the need to and an ability to engage in continuing professional development.
- I. An ability to use current techniques, skills, and tools necessary for computing practice.
- J. An 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.
- K. An ability to apply design and development principles in the construction of software systems of varying complexity.