Educational Objectives for the BSCS Program

The educational objective of the computer and information science programs is to graduate students who have acquired:

- depth and breadth of knowledge in computer and information science as evidenced by an understanding of computing systems and science coupled with the capacity to produce feasible and responsible solutions to complex computing problems;
- literacy as evidenced by skills in writing, reading, speaking, and listening;
- critical thinking as evidenced by skills in interpretation, analysis, evaluation, inference, argumentation, and reflection;
- values as evidenced by the ability to make reasoned and ethical choices and to accept responsibility for them;
- interpersonal skills as evidenced by leadership ability, appreciation for diversity, and the capacity to work effectively with others;
- life-long learning skills as evidenced by the ability to adapt to innovation and change.

Educational Outcomes for the BSCS Program

Graduates of the Syracuse University BSCS program achieves the following outcomes:

- The ability to think critically
- The ability to communicate critically
- An understanding of ethical and professional aspects of engineering and science
- The ability to work effectively in multidisciplinary teams
- The ability to devise computational solutions of complex problems
- The ability to apply the principles of abstraction and structural design
- The ability to reason about program correctness, complexity, and apply formal methods and models
- The ability to develop robust software by means of a variety of programming paradigms and languages