

Computer Science and Software Engineering

COMPUTER SCIENCE PROGRAM EDUCATIONAL OBJECTIVES

The overall objective of the Computer Science program is to prepare graduates who will be successful in their chosen career paths. Within a few years of graduation, alumni of the Computer Science program will attain:

PEO 1: Success in their chosen profession as evidenced by career satisfaction, promotions/raises, and leadership at levels appropriate to their experience.

and/or

PEO 2: Success in post-undergraduate studies as evidenced by satisfaction with the decision to further their education, advanced degrees earned, and professional visibility (e.g., publications, presentations, awards, etc.).

PROGRAM OUTCOMES – COMPUTER SCIENCE

1. Students will be able to analyze, formulate, and/or derive software requirements for systems or subsystems defined at a high level.
2. Students will be able to design a set of candidate solutions given a problem statement and recommend the best solution by evaluating tradeoffs and circumstances.
3. Students will be able to express a conceptual solution in a form that is executable by a computer and understandable by fellow professionals.
4. Students will be able to apply their knowledge of mathematics (particularly discrete mathematics, probability, and statistics) to the modeling, analysis, and measurement of algorithms and software artifacts.
5. Students will be able to effectively communicate their professional work to others in written, oral, and electronic forms.
6. Students will be aware of the need for and of their responsibilities regarding ethical conduct and life-long learning.
7. Students will display knowledge of contemporary issues and the impact of computer science in a global and societal context.
8. Students will be able to function effectively on multidisciplinary teams to accomplish a common goal.