COMPUTER SCIENCE, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus
End Campus: Harrisburg

Program Learning Objectives

• Know Algorithmic Problem Solving and Analysis: Formulate and solve problems using appropriate data structures and algorithmic techniques; analyze the efficiency and correctness of the algorithms.

• Know Computer Hardware and Operating Systems: Analyze the effects of computer hardware and operating systems design on the efficiency and correctness of software systems.

• Know Programming Language Paradigms: Express algorithms clearly and correctly in a variety of programming languages.

• Know Theoretical Foundations of Computer Science: Explain and use the theoretical foundations of computer science effectively.

• Use Software Engineering Skills: Design and implement large software systems through a strong foundation in the software development lifecycle, effective communication, and team work.