

Computer Science 167 : Introduction to Computational Problem Solving

Students will learn to design, document, implement, test, and debug algorithmic solutions to computational problems in a high-level, object-oriented programming language. We introduce core concepts: algorithms, data structures, and abstraction. We apply foundational constructs common to all programming languages: data types, variables, conditional execution, iteration, and subroutines. Students will gain experience with exploratory and structured approaches to problem solving through collaborative in-class exercises. Frequent programming projects will address applications of computing to problems arising from other disciplines.

Credits 4