

Course Overview

College: CUNY School of Professional Studies
Program: Online Bachelor's Degree in Information Systems
Course Name: Software Application Programming I
Course Code: IS 210
Credits: 3.0
Required: Yes
Prerequisite: None

Course Overview

Description

The ability to write software programs is a critical skill in the IS field. Students are introduced to the fundamental concepts and terms of computer science that are necessary to program software, with an emphasis on problem-solving and algorithm development. Concepts such as data types, control structures, modular organization, and object-oriented programming, using practical examples that highlight the design, implementation, and testing phases of programming, are explained. Important topics such as program documentation, input/output considerations, and information assurance are stressed. Students build several well-documented and well-designed integratable code modules to present in class.

Exams: Mid-term, Final

Projects: Final Course Project

Objectives

At the end of this course, students will be able to:

- Understand the basic components of a software application and computer system
- Explain the elements of computer programming languages
- Research and develop an algorithm for a real-world problem
- Develop programs for simple to intermediate problems