

Course Abstract

If you need accommodations due to a disability, contact Disability Services in Edison Hall Room 100, 732.906.2546.

To foster a productive learning environment, the College requires that all students adhere to the Code of Student Conduct which is published in the college catalog and website.

Course ID and Name: CSC166 - C++ Programming

Department: Business and Computer Science

Chairperson or Course Coordinator: Dr. Aslihan Cakmak

Office Location: ED123

E-mail Address: ACakmak@Middlesexcc.edu

Telephone: 732-906-2526

Prerequisites: MAT 014 or appropriate score on the College placement test

Co-requisites: None

Course Description:

This course presents an introduction to programming and problem solving using an object-oriented programming language C++. Algorithm development and basic problem solving techniques are introduced. Fundamental topics of computer programming including sequence, selection, repetition, input/output, functions, parameter passing, scope, lifetime and arrays are discussed in detail. The course is recommended for students in other programs seeking a rigorous introduction to computer programming.

General Education Status: N/A

Credits: 3

Lecture Hours: 2

Lab Hours: 2

Learning Outcomes:

Upon successful completion of this course, a student will be able to:

1. Develop and document algorithms of moderate complexity using Input and Output capabilities.
2. Create programs of moderate complexity (150 statements) in C++ using selection structures.
3. Use one and two dimensional arrays and functions in programs.
4. Verify proper operation of algorithms and programs.

Course Content Areas:

- Program Development Process
- Data Values and Arithmetic Operations
- Variables and Declaration Statements
- Input/Output (keyboard and monitor)
- Assignment Operations and Constant
- Selection
- Repetition
- Functions
- Arrays