

**NORMANDEALE COMMUNITY COLLEGE**  
**COMMON COURSE OUTLINE**  
**CSCI 1202, INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING IN C++**

**9/28/2011**

**I. EFFECTIVE DATE OF OUTLINE**

Spring Semester 2011. To be reviewed by the department annually.

**II. CATALOG DESCRIPTION**

- A. CSCI 1202
- B. Introduction to Object-Oriented Programming in C++
- C. 3 credits
- D. Offered Fall Semester
- E. Prerequisite: CSCI 1111 or proficiency with the C programming language
- F. Programming in C++ and concepts of C++, with an emphasis on programming techniques and object-oriented programming.

**III. RECOMMENDED ENTRY SKILLS/KNOWLEDGE**

Before taking CSCI 1202, students should be able to:

- A. Design C computer programs that are thoroughly documented and tested, generally of high quality, and incorporating all principles of good design.
- B. State and apply the rules of the C programming language.
- C. Successfully operate the computers in the Normandale Community College Computer Center or another system of their choice.

**IV. OUTLINE OF MAJOR CONTENT AREAS**

- A. Object-oriented programming
- B. Operators, operands
- C. Operator overloading
- D. Identifiers, expressions, syntax
- E. Data types, variables, variable scope
- F. Classes and objects
- G. Constructors and destructors
- H. Function overloading
- I. Template classes and functions
- J. Class derivation and inheritance

**V. LEARNING OUTCOMES**

Upon successful completion of CSCI 1202, students will be able to:

- A. Design C++ computer programs that are thoroughly documented and tested, generally of high quality, and incorporating all principles of good design.
- B. State and apply the rules of the C++ programming language.

**VI. METHODS USED FOR EVALUATION OF STUDENT LEARNING**

The instructor will choose from among various evaluation techniques including – but not limited to – in-class testing, take-home testing, assignments, quizzes, attendance, group or individual projects, and research. The instructor will also choose a method for end-of-the-semester evaluation.