

CSC428

**Object Oriented Programming &  
Data Structures**

**Q141  
Syllabus**

**Dr BEN CHOI**

**Description**

Programming paradigms, syntax, semantics, data types, expression, control statements, and subprograms; object oriented concepts, abstract data types, recursion, queues, and trees.

**Credits:** 3; **Prerequisites:** Consent of instructor;

**Classes:** MWF 9:30AM - 10:45AM @ NETH 105

**Office hours:** (to be determined) NH 119, (or by appointment)

**Objectives**

- To be able to program using object oriented programming language.
- To gain techniques on problem solving using computers.

**Text**

*Concepts of Programming Language & <http://www.cplusplus.com>*

**Representative Topics**

<b>Topics</b> <i>Concepts will be enhanced by programming using C++ (Some sections may be assigned as reading.)</i>	<b>Reading Chapter</b>	<b>Approximate No. of Weeks</b>
Preliminaries & Evaluation of the Major Programming Languages	1 & 2	1
Describing Syntax and Semantics	3	1
Names, bindings, and Scopes	5	1
Data Types	6	1
Expressions and Assignment Statements	7	1
Statement-Level Control Structures	8	1
Subprograms and Implementing Subprograms	9 & 10	1
Abstract Data Types and Encapsulation Constructs	11	1
Support for Object-oriented Programming	12	1

## Grading Plan

Attendance & Class participation Quizzes & Assignments	10%
Projects	20%
Midterm Exam	35%
Final Exam	35%

Final grade may be normalized (or curved). For homework, quizzes, and exams, each student must work independently.

**Attendance:** Class attendance is governed by university regulations. Class attendance is regarded as an obligation and all students are expected to attend punctually all classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing.

**Misconduct:** Academic misconduct is governed by university regulations. The penalty for cheating and other forms of misconduct may result in an "F" in the course.



Computer Science