

## COSC1567E: Programming in C++

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**Course Description:**

The main purpose of this course is to provide students with a strong understanding C++ programming language and an introduction to object-oriented programming, including functions, pointers, arrays, structures, classes, inheritance, friends and operator overloading, and exception handling.

**Prerequisite Courses:** COSC1557E

**Textbook:** Walter Savitch, *Absolute C++, 4/E, Addison-Wesley, 2009, 984 pp, ISBN-10: 0136083811, ISBN-13: 9780136083818,*

**Reference:** Farrell, Joyce, *Object-Oriented Programming Using C++, 3/e, Course Technology, ©2008. ISBN: 0-619-03361-4*

**Web Sites:** <http://www.pearsonhighered.com/educator/product/Absolute-C/9780136083818.page> .

<http://www.nipissingu.ca/faculty/haibinz>.

**Course grade:**

- 10 laboratory assignments (15%).
- 4 programming projects (12%), and
- 2 tests (30%),
- 1 comprehensive final exam (43%).

The course grade is determined by the standard college formula based on the course average:

- "A" (80-100),
- "B" (70-79),
- "C" (60-69),
- "D" (50-59), or
- "F" (0-49).

The written test and the final exam are closed book. The lab test is open-book and open note. *Attendance is not graded as described above. However, bad attendance leads to bad grades normally. Generally, there are no makeup tests and quizzes. You must show strong evidences and authorization to have a makeup test.*

**Schedule for COSC1567E**

**(Lectures in A126 on Mon: 12:30PM - 3:20PM; Lab in A126 on Thu: 03:30PM - 4:20PM)**

No.	Date	Lecture and Lab	Notes
1	01/09	Lect 1	Overview of Programming and Control Structures Chap1 & Chap2
	01/10	<i>Lab 1</i>	Control Structures
2	01/16	Lect 2	Chap 3, Array and Pointers, Prj1
	01/17	<i>Lab2</i>	Array and Pointers
3	01/23	Lect 3	Chap 4, Functions
	01/24	<i>Lab 3</i>	Array and Pointers
4	01/30	Lect 4	Chap 5, Class, Prj1 due
	01/31	<i>Lab 4</i>	Functions
5	02/06	Lect 5	Chap 6, Class,
	02/07	<i>Lab 5</i>	Class
	02/13	<b>Review and Test 1</b>	Project 2
	02/14	<i>Lab 6</i>	Class
6	02/20	<b>Study week</b>	<b>No class</b>
	02/21	<b>No lab</b>	<b>No lab</b>
7	02/27	Lect 6	Chap 7, Friends, Proj2 due, Prj3
	02/28	<i>Lab 7</i>	Friends
8	03/06	Lect 7	Chap 8, Overloading Operators
	03/07	<i>Lab 8</i>	Overloading Operators
9	03/13	Lect 8	Chap 9, Inheritance Prj3 due
	03/14	<b>Test 2 (Lab )</b>	
10	03/20	Lect 9	Chap 10, Advanced I/O, Prj4
	03/21	<i>Lab 9</i>	Advanced I/O
11	03/27	Lect 10	Chap 11, Templates
	03/28	<i>Lab 10</i>	Templates
12	04/03	Lect 11	Chap 12, Exception Handling, Prj4 due
	04/04	<i>Lab 11</i>	Review Lab
	04/??	Final	

**Note: Everything may be subject to change, please pay attention to the class declarations.**