

LEMOYNE-OWEN COLLEGE
DIVISION OF NATURAL AND MATHEMATICAL SCIENCES

Syllabus for COSI 216 A
PROGRAMMING in C++
Spring Semester, 2010

Pre-requisites: COSI 118.

Text: Deitel & Deitel, *C++ How to Program*, Seventh Edition. Prentice Hall, 2010.
ISBN 978-0-13-611726-1

Class Meeting: MWF 9:05 a.m. to 10:00 a.m., GOH 114.

Instructor:

<i>Name:</i>	Valerie Chu, Ph.D.
<i>Office:</i>	GOH 400 D
<i>Phone:</i>	435-1378
<i>Office Hours:</i>	MWF 11:05 a.m. to 1:25 p.m. TTh 9:30 to 11:00 a.m.
<i>Email:</i>	valerie_chu@loc.edu, extrapo66@yahoo.com
<i>URL:</i>	http://biobio.loc.edu/chu/web/ http://10.71.1.31/chu/web/

Course Description:

An introductory course to C++ programming. Topics covered include basic data types, branching, loops, functions, parameter passing, arrays, structures and classes. The emphasis is on problem solving.

Objectives:

- To demonstrate the ability to identify input and output from an application problem.
- To explain clearly to other students about the difference between an input and output.
- To communicate effectively on the way to solve an application problem.
- To explain clearly to other students how to translate problem-solving in the C++ programming language.
- To show the ability to debug C++ programs and write a remark about a logic error.
- After completing C++ programs, write about the purpose of each program.

Course Outline:

<i>Weeks</i>	<i>Chapters</i>	<i>Topics</i>
1	1	Introduction to Computers, the Internet and Word Wide Web
2-3	2	Introduction to C++ Programming: Data: Types Input and Output Objects Nuts and Bolts: Standard Stuff in C++
4	3	Introduction to Classes and Objects
5		Review and Test I
6	4	Control Statements: Part 1
7	5	Control Statements: Part 2
8 & 9	6	Functions and an Introduction to Recursion
10		Review and Test II
11	7	Arrays and Vectors
12 & 13	8	Pointers
14		Review for Final Comprehensive Exam & Project Presentation
15		Comprehensive Final Exam

Instructional Strategies:

Students will engage in learning activities, which will include assigned readings, class presentation, and computer laboratory work. All announcements will be posted in the web-site, <http://biobio.loc.edu/chu/web/>.

Course Requirements and Evaluation Procedures:

Several quizzes, two mid-term tests and a final comprehensive examination will be given. There are **no make-up tests** except for a valid document from a doctor; however, a note from home is not acceptable.

Programming or written assignments will be assigned frequently. It has to be sent through the e-mail by the deadline (noon of the due day). **Late assignments will receive the following penalties:** 1 day late, minus 10 points; 2 days late, minus 20 points; 3 days late, minus 30 points; ...and so on until zero credit. Students are responsible to check a return e-mail for assignment credits. If a student has turned in assignments and there is no response from the instructor, the student has to contact the instructor directly; otherwise, the student would get a zero credit for the assignment. **Duplication of programming or written assignments will not be permitted. Duplicated programming assignments as well as the original will be assigned a grade of "F".**

The score of the final examination can be used to replace the lowest score of the mid-term examinations.

<p>The course grade will be calculated on the following distribution:</p> <table border="0"> <tr><td>Homework</td><td>15%</td></tr> <tr><td>Quizzes</td><td>15%</td></tr> <tr><td>Mid-term Tests</td><td>40%</td></tr> <tr><td>Project</td><td>10%</td></tr> <tr><td>Final Exam</td><td>20%</td></tr> </table>	Homework	15%	Quizzes	15%	Mid-term Tests	40%	Project	10%	Final Exam	20%	<p>Grades will be recorded in numerical form until the final averages are determined at the end of the semester.</p> <p><i>Grading Scale</i> will be</p> <table border="0"> <tr><td>90 to 100</td><td>A,</td></tr> <tr><td>80 to 89</td><td>B,</td></tr> <tr><td>70 to 79</td><td>C,</td></tr> <tr><td>60 to 69</td><td>D,</td></tr> <tr><td>others</td><td>F.</td></tr> </table>	90 to 100	A,	80 to 89	B,	70 to 79	C,	60 to 69	D,	others	F.
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Attendance Policy:

If as many as **6 classes** are missed without excuse, the course grade will be reduced by one letter. If as many as **8 classes** are missed without excuse, the student will fail the course. An absence from class will be excused only if a written doctor's excuse or a written statement concerning a death in the family is supplied. Coaches or other faculty for legitimate events provides other valid excuses.

Five classes tardy will be counted as one missing class.

Policies Related To Students With Disabilities:

The facility of Gibson-Orgill hall is equipped an entrance ramp and elevator to accommodate students with physical disabilities. Special arrangements can be made for students with other disabilities or impairments (i.e., deaf, mute, etc.)

If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please make an appointment with Jean Saulsberry, Director of Student Development as soon as possible (901) 942-6205. The Student Development Office is located in the Alma C. Hanson Student Center, room 208.

Announcement:

TLSAMP program provides study groups. Tutors are available for study groups. You are encouraged to get help from the tutors of TLSAMP program.