

**UNIVERSITY OF TEXAS AT DALLAS**  
DEPARTMENT OF COMPUTER SCIENCE  
CS 1336 Programming Fundamentals (C++)  
COURSE SYLLABUS Spring 2005  
Instructor Martha Sanchez

CATALOG DESCRIPTION: (3 semester hours) Introduction to computers. Primitive data types, variable declarations, variable scope, and primitive operations. Control statements. Methods/functions, including recursion. Arrays, including implementation of a stack data structure and strings using primitive data arrays. Output formatting. Debugging techniques. Designed for students with no prior computer programming experience.

<b>INSTRUCTOR:</b>	Martha A. Sanchez								
<b>E-MAIL</b>	Use WebCT e-mail tool <b>only</b>								
<b>WWW</b>	It is important to visit the course web page and WebCT frequently to check announcements, homework, activities, tips, FAQ, links, etc. <a href="http://www.utdallas.edu/~Martha.Sanchez">http://www.utdallas.edu/~Martha.Sanchez</a> <a href="http://webct.utdallas.edu">http://webct.utdallas.edu</a>								
<b>OFFICE:</b>	ECSS 3.703								
<b>OFFICE HOURS:</b>	Tuesday and Thursday 2:00 – 4:00 PM (at OUGA. ECSS - Suite 2.502) TBA (in my office ECSS 3.703)								
<b>TEXTBOOK:</b>	Standard Version of STARTING OUT WITH C++, Fourth Edition, by Tony Gaddis and Barret Krupnow, Scott Jones Publishers								
<b>OBJETIVES:</b>	After successful completion of this course, the student will have the ability to: <ol style="list-style-type: none"> <li>1. Ability to develop algorithmic solutions for use on computers</li> <li>2. Ability to express algorithmic solutions in a high level computer language</li> <li>3. Ability to use programming tools such as an editor, compiler and linker</li> <li>4. Ability to utilize fundamental programming structures - linear processing</li> <li>5. Ability to utilize fundamental programming structures - conditional processing</li> <li>6. Ability to utilize fundamental programming structures - loop processing</li> <li>7. Ability to process data in arrays</li> <li>8. Ability to develop programs in a functional/method form</li> <li>9. Ability to perform searches and sorts</li> <li>10. Ability to utilize reference variables</li> <li>11. Ability to manipulate character and string data</li> </ol>								
<b>METHOD OF EVALUATION:</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">3 Exams</td> <td style="width: 50%; text-align: right;">60%</td> </tr> <tr> <td>6 Homework Assignments</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>Quizzes</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>In class problems</td> <td style="text-align: right;">5%</td> </tr> </table> <p><b>Important Note: The student must obtain an average of 60/100 points on the exams to have a passing grade for the course.</b></p>	3 Exams	60%	6 Homework Assignments	30%	Quizzes	5%	In class problems	5%
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<b>LETTER GRADES:</b>	(97-100 A+) (92-96 A) (90-91 A-) (88-89 B+) (82-87 B) (80-81 B-) (78-79 C+) (72-77 C) (70-71 C-) (68-69 D+) (62-67 D) (60-61 D-) Below 60 F.								
<b>AUDITING COURSES:</b>	No auditing of courses is allowed in the School of Engineering and Computer Science.								
<b>2005 DATES, Spring SEMESTER:</b>	Jan 10 - Classes begin March 7 to 12 – Spring Break April 25 - Last day of classes for the Spring 2005 term April 26 - May 2.- Final examinations for the Spring 2005 term								

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<b>CLASS POLICIES</b>	<p><b>HOMEWORK and ACTIVITIES</b></p> <ul style="list-style-type: none"><li>- Read the rules and specifications in the web page for every homework and activity.</li><li>- You must <u>upload</u> and <u>submit</u> your homework using <u>WebCT</u>.</li><li>- Homework is due on the specified date no later than 11:00 PM (WebCT time).</li><li>- Homework will be accepted one day late with a 10% penalty.</li><li>- After one day, if not submitted, assignments will receive a <b>grade of zero</b>.</li><li>- Every time you submit homework through WebCT, WebCT will send you an e-mail acknowledgement. You must keep this e-mail for your records until the end of the semester and the final grade has been assigned. You will use it in case any homework submittal issue arises. <b>Note: If you do not receive an acknowledge e-mail, WebCT has not received your homework and it will be considered as not submitted. The e-mail address requested by WebCT for confirmation is your own, not the professors'</b></li></ul> <p><b>EXAM</b></p> <ul style="list-style-type: none"><li>- <b><u>Exam dates are fixed</u></b>. No makeup exams at a later/earlier date will be scheduled for any student unless a written medical note is provided.</li><li>- <b><u>Test-taking rules</u></b>: no caps or hats, no books, no calculators, no cell phones (no electronic devices). You must bring 2 official IDs and sign the exam.</li></ul> <p><b>GENERAL</b></p> <p>I expect the student to <b>come to class</b>, study the materials and textbook and do the homework, activities and exams.</p> <p>It is the <b>student's responsibility</b> to check what we covered in class and the announcements during class if he or she did not attend.</p> <p>The best way of learning a Programming Language is by practicing it. You can acquire a good programming level by doing all examples from the textbook.</p> <p>The course is very <b>time demanding</b>. <b>Plan ahead</b> all your activities and if you have any problem with your homework or your study, do not hesitate to ask questions to the TA or the Instructor. Do not wait until you have a bad grade.</p>
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It is **important** to read The University of Texas System Policy on **Scholastic Dishonesty** that appears in the Regents Rules and Regulations. , *Part One, Chapter VI, Section 3, Paragraph 3.22*. "Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another, any act designed to give unfair advantage to a student or the attempt to commit such acts".

### Class Schedule

Topics
Basic Computers and Programming. Chapter 1
Introduction to C++. Chapter 2
Expressions and Interactivity. Chapter 3
Making Decisions. Chapter 4
Looping. Chapter 5
Functions. Chapter 6
Arrays. Chapter 7
Searching and Sorting. Chapter 8
Pointers. Chapter 9
Characters and Strings. Chapter 10

**Important:** The dates in this schedule may change due to the class level. If the class needs more time and examples to understand a concept I will modify the schedule. If the class is ready to skip a chapter or go faster I will modify the schedule. Therefore, it is the **student's responsibility** to check what we covered in class and the changes in the schedule announced during class.

Homework Assignments. 30%
1. Chapters 1 and 2. Jan 27
2. Chapter 3 and 4. Feb 10
3. Chapter 5. March 3
4. Chapter 6 and 7. March 24
5. Chapter 8. April 7
6. Chapter 9. April 21

Exams. 60%
Exam 1. Chapters 1,2,3 and 4. February 15
Exam 2. Chapters 5, 6 and 7. March 29
Exam 3. Chapters 8, 9 and 10. April 26 11:00 AM same classroom

Quizzes. 5%
You must check WebCT quizzes due dates. (You will have approximately 4 to 6 quizzes during the semester)

In class problems. 5%
You must attend class to earn this 5%. During some classes the students will solve some problem related to the topic. Attendance will be recorded for grading purposes.