

	<b>Course</b>	CS 3376.001 SE 3376.001
	<b>Professor</b>	Dr. Richard Min (Ph.D., MBA, MS, MDiv, STM)
	<b>Term</b>	Fall 2014
	<b>Meetings</b>	Tuesday & Thursday 10:00am-11:15am in ECSS2.412

### Professor's Contact Information

<b>Office Phone</b>	972-883-4522
<b>Office Location</b>	ECSS 3.609
<b>Email Address</b>	Richard.Min@utdallas.edu
<b>Office Hours</b>	Monday & Wednesday 1:30pm – 2:30pm Tuesday & Thursday 2:30pm – 3:30pm

### General Course Information

<b>Pre-requisites</b>	CE 2336 or CS 2336 or TE 2336
<b>Course Description</b>	<b>CS 3376 - C/C++ Programming in a UNIX Environment</b> (3 semester credit hours) Advanced programming techniques utilizing procedural and object oriented programming in a UNIX environment. Topics include file input and output, implementation of strings, stacks, queues, lists, and trees, and dynamic memory allocation/management. Design and implementation of a comprehensive programming project is required. Prerequisite: (CE 2336 or CS 2336 or TE 2336) with a grade of C or better or equivalent. (Same as SE 3376) (3-0) S
<b>Learning Outcomes</b>	After successful completion of this course, the student should be able to: <ol style="list-style-type: none"> <li>1. Ability to create classes of abstract data consisting of variables and functions</li> <li>2. Ability to utilize C++ constructors, copy constructors, and destructors</li> <li>3. Ability to utilize C++ OOP features using static member data and member functions</li> <li>4. Ability to utilize C++ File and Stream Input/Output Processes</li> <li>5. Ability to generate reusable code using inheritance</li> <li>6. Ability to use polymorphism and virtual member functions</li> <li>7. Ability to generate reusable code using templates</li> <li>8. Ability to create and utilize dynamic data structures such as linked lists</li> <li>9. Ability to create and utilize recursive functions</li> </ol>
<b>Required Text</b>	<ol style="list-style-type: none"> <li>1. <i>Starting Out With C++: From Control Structures through Objects</i>, 8th ed., by Tony Gaddis, Addison Wesley. ©2015. ISBN-10: 0133769399 (This is your textbook for CS1336 and CS1337).</li> <li>2. <i>Advanced Programming in the UNIX® Environment</i>, 3e. W. Richard Stevens; Stephen A. Rago. Addison-Wesley. © 2013. ISBN-10: 0-321-63773-9.</li> <li>3. <i>Beginning Linux Programming</i>, 4th edition by Neil Matthew, Richard Stones, ISBN-10: 0470147628 ISBN-13: 978-0470147627</li> <li>4. <i>A Tour of C++</i>, 1/e. Stroustrup. ©2014 Addison-Wesley Professional. ISBN-10: 0321958314. ISBN-13: 9780321958310</li> </ol> <b>(#2-#4 are Available in UTD eLibrary - Safari)</b>
<b>Supplemental Text &amp; Online Resources</b>	<i>C++ Programming Language</i> . 4/e. Stroustrup ©2014 Addison-Wesley ISBN-10: 0321958322. ISBN-13: 9780321958327 <i>Programming: Principles and Practice Using C++</i> , 2/e. Stroustrup ©2014 Addison-Wesley Professional. ISBN-10: 0321992784. ISBN-13: 9780321992789

	<p><i>Guide to UNIX Using Linux</i>, 4th Edition. Michael Palmer. © 2008 Cengage/Course Technology. ISBN-10: 1418837237 ISBN-13: 9781418837235</p> <p><i>C++ Primer</i>, 5e. Stanley B. Lippman, Josée Lajoie; Barbara E. Moo. Addison-Wesley Professional 2012. ISBN-10: 0-321-71411-3.</p> <p><i>The C Programming Language</i>, 2e. Brian W. Kernighan, Dennis M. Ritchie. Prentice Hall, 1988. ISBN-10: 0-13-110362-8</p> <p><i>C++ How to Program</i>, 9ed. Paul Deitel; Harvey Deitel. © 2013 Prentice Hall. ISBN-10: 0-13-337871-3. ISBN-13: 978-0-13-337871-9.</p> <p>C: A reference Manual (5th Edition) by Samuel P. Harbison, Guy L. Steele Jr.</p> <p>C++ language tutorial <a href="http://www.cplusplus.com/files/tutorial.pdf">http://www.cplusplus.com/files/tutorial.pdf</a></p> <p>C++ tutorial <a href="http://www.learncpp.com/">http://www.learncpp.com/</a></p> <p>C++ reference: <a href="http://cppreference.com">http://cppreference.com</a></p>
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### Important Dates\*

<b>08/26 Tuesday</b>	First Day of Class
<b>09/01 Monday</b>	Labor Day Holiday – NO CLASSES
<b>09/23, 10/07, 10/21, 11/04, 11/18 Tuesday *</b>	5 Assignments Due – check eLearning for details
<b>09/30 Tuesday *</b> <b>10/28 Tuesday *</b> <b>12/09 Tuesday *</b>	Exam 1,2,3 (In TESTING CENTER and not in classroom)
<b>11/24 Monday - 11/28 Friday</b>	NO CLASSES (Fall Break & Thanksgiving Week)
<b>12/09 Tuesday</b>	Last Day of class
<b>12/12 – 12/18 (TBD)</b>	Final Examination

\* Note: The dates here are tentatively assigned and are subject to change as needed.

### Course Policies

<b>Grading Criteria</b>	5 Assignments (5x6)	30%	A+ = 97 & above
	Quiz & Attendance	10%	A = 93-96
	3 Tests (20+20+20)	60%	A- = 90-92
			B+ = 87-89
			B = 83-86
			B- = 80-82
			C+ = 77-79
			C = 73-76
			C- = 70-72
			F = below 70
<b>Make-up Exams</b>	Not allowed		
<b>Late Work</b>	25% reduction in grade per day or partial day for any late submissions;		
<b>Class Attendance</b>	Required; Attendance will be taken		
<b>Classroom Citizenship</b>	Respect for your classmates is necessary at all times		
<b>All other policies</b>	Please visit <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for other policies		