UTD	**Course**	CS 3376.501 SE 3376.501
	Professor	Dr. Mohamed Amine Belkoura
	Term	Fall 2016
	Meetings	Tuesday & Thursday 7:00pm-8:15pm in ECSS 2.126

Professor's Contact Information

Office Phone	972-883-4523
Office Location	ECSS 4.403
Email Address	mxb135330@utdallas.edu
Office Hours	Tuesday & Thursday 6pm – 7pm

General Course Information

Pre-requisites	CE 2336 or CS 2336 or TE 2336
Course Description	**CS 3376 - C/C++ Programming in a UNIX Environment** (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
Learning Outcomes	After successful completion of this course, the student should be able to: - Ability to use the UNIX operating system interactively as a user (commands) - Ability to express algorithmic solutions using shell scripting (utilities) - Ability to understand and use regular expressions - Ability to use the UNIX programming environment (editor, compiler and linker) - Ability to understand UNIX processes (creation and control) - Ability to perform input/output of binary files - Ability to use interprocess communication (pipes, sockets and signals) - Ability to understand the UNIX file system - Ability to understand and use version control system
Required Text	1. *Starting Out With C++: From Control Structures through Objects*, 8th ed., by Tony Gaddis, Addison Wesley. ©2015. ISBN-10: 0133769399 (This is your textbook for CS1336 and CS1337).
Supplemental Text & Online Resources	*Advanced Programming in the UNIX® Environment*, 3e. W. Richard Stevens; Stephen A. Rago. Addison-Wesley. © 2013. ISBN-10: 0-321-63773-9. 2. *Beginning Linux Programming*, 4th edition by Neil Matthew, Richard Stones, ISBN-10: 0470147628 ISBN-13: 978-0470147627 3. *A Tour of C++*, 1/e. Stroustrup. ©2014 Addison-Wesley Professional. ISBN-10: 0321958314. ISBN-13: 9780321958310 *4. C++ Programming Language.* 4/e. Stroustrup ©2014 Addison-Wesley ISBN-10: 0321958322. ISBN-13: 9780321958327 *5. Programming: Principles and Practice Using C++*, 2/e. Stroustrup ©2014 Addison-

	Wesley Professional. ISBN-10: 0321992784. ISBN-13: 9780321992789 6. *Guide to UNIX Using Linux*, 4th Edition. Michael Palmer. © 2008 Cengage/Course Technology. ISBN-10: 1418837237 ISBN-13: 9781418837235 7. *C++ Primer*, 5e. Stanley B. Lippman, Josée Lajoie; Barbara E. Moo. Addison-Wesley Professional 2012. ISBN-10: 0-321-71411-3. 8. *The C Programming Language*, 2e. Brian W. Kernighan, Dennis M. Ritchie. Prentice Hall, 1988. ISBN-10: 0-13-110362-8 9. *C++ How to Program*, 9ed. Paul Deitel; Harvey Deitel. © 2013 Prentice Hall. ISBN-10: 0-13-337871-3.ISBN-13: 978-0-13-337871-9. C: A reference Manual (5th Edition) by Samuel P. Harbison, Guy L. Steele Jr. C++ language tutorial http://www.cplusplus.com/files/tutorial.pdf C++ tutorial http://www.learncpp.com/ C++ reference: http://cppreference.com **(#1-#3 are Available in UTD eLibrary - Safari)**

Important Dates*

08/22 Monday	First Day of Class
09/05 Monday	Labor Day – NO CLASSES
Sundays *	6 Assignments + 1 Group Project – check eLearning for details
10/06 Thursday * 12/08 Thursday *	Exam 1 and 2 in Classroom
11/21 - 11/25	NO CLASSES (Fall break + Thanksgiving)
12/08 Thursday	Last Day of class (Exam day)

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

Course Policies

Grading Criteria	Assignments 40% Quizes/Homework 15% Attendance 5% 2 Tests (20+20) 40%	A+ = 97 & above A = 93-96 A- = 90-92 B+ = 87-89 B = 83-86 B- = 80-82 C+ = 77-79 C = 73-76 C- = 70-72 F = below 70
Make-up Exams	Not allowed	
Late Work	2 points off for every hour late; submission closes 2 days after deadline;	
Class Attendance	- Required; Attendance will be taken - 3 consecutive absences = one letter grade drop. - 4 consecutive absences = an F grade - 5 total absences = one letter grade drop - 8 total absences = an F grade	
All other policies	Please visit http://go.utdallas.edu/syllabus-policies for other policies	