



**Course** CE/TE 4348.501, Operating Systems Concepts  
**Professor** Richard Goodrum  
**Term** Fall 2016  
**Meetings** TR 5:30-6:45 P.M., Room: ECSN 2.120

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#### Professor's Contact Information

<b>Office Phone</b>	972-883-8830
<b>Other Phone</b>	972-883-2185 (CS Department Phone Number)
<b>Office Location</b>	ECSS 4.604
<b>Email Address</b>	Richard.Goodrum@utdallas.edu
<b>Office Hours</b>	Tuesdays 7:00-8:00 P.M. or by appointment
<b>Teaching Assistant</b>	TBD
<b>Other Information</b>	The best way to communicate with me (other than meeting me in my office during the office hours) is through UTD email. Use email to set up appointments outside the office hours.

#### General Course Information

<b>Pre-requisites, Co-requisites, &amp; other restrictions</b>	Pre-requisites: CS/SE/TE 3340 or equivalent, CE/CS/SE/TE 3345 and a working knowledge of C and UNIX. <i>Programming skills in C/C++ and/or in Java, socket programming skills should make the course even more enjoyable for you.</i>
<b>Course Description</b>	An introduction to fundamental concepts in operating systems: their design, implementation, and usage. Topics include process management, main memory management, virtual memory, I/O and device drivers, file systems, secondary storage management, and an introduction to critical sections and deadlocks.
<b>Learning Outcomes</b>	After successful completion of this course, the student should have: <ol style="list-style-type: none"><li>1. An understanding of basic elements of computer system hardware.</li><li>2. An understanding of modern operating systems.</li><li>3. An understanding of processes.</li><li>4. An understanding of threads.</li><li>5. An understanding of concurrency issues.</li><li>6. An understanding of simple memory management.</li><li>7. An understanding of virtual memory.</li><li>8. An understanding of scheduling algorithms.</li><li>9. An understanding of I/O management.</li><li>10. An understanding of file management.</li></ol>
<b>Required Texts &amp; Materials</b>	Operating Systems, Internals and Design Principles, Eighth Edition, by William Stallings, ISBN-13: 978-0-13-380591-8. 2014 by Pearson (Prentice-Hall, Inc.)

### Assignments & Academic Calendar

Week	Class	Dates	Reading Assignment	CL O	Homework	Program	Quiz or Exam
1	1, 2	Aug 23, 25	Chapter 1	1			
2	3, 4	Aug 30, Sep 01	Chapter 2	2	1		
3	5, 6	Sep 06, 08	Chapter 3	3			Quiz 1
4	7, 8	Sep 13, 15		4	2	1	
5	9, 10	Sep 20, 22	Chapter 4	5			
6	11, 12	Sep 27, 29	Chapter 5		3		Quiz 2
7	13, 14	Oct 04, 06		5			
8	15, 16	Oct 11, 13	Chapter 6		4		
9	17, 18	Oct 18, 20				2	Quiz 3
10	19, 20	Oct 25, 27	Chapter 7	6	5		
11	21, 22	Nov 01, 03	Chapter 8	7			
14	23, 24	Nov 08, 10	Chapter 9	8	6	3	Quiz 4
13	25, 26	Nov 15, 17	Chapter 10	8			
	Fall Break	Nov 22, 24					
14	27, 28	Nov 29, Dec 01	Chapter 11	9	7		
15	29	Dec 06	Chapter 12	10		4	
16	30	TBD					Final

<b>Important Dates and Times</b>	First day of class: Tuesday, 23 Aug, 2016 Final Exam: TBD
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**Course Policies**

<b>Grading Criteria</b>	Final: 20%, Homework: 10%, Participation: 10%, Programs: 30%, Quizzes: 30%
<b>Quizzes</b>	Quizzes may be given on any day during their block.
<b>Make-up Exams</b>	Make-ups will be offered only if the student has a valid medical reason and produces a doctor's letter (in English) for the specific date. Blanket letters will not be accepted.
<b>Extra Credit</b>	No extra credit work will be assigned.
<b>Late Work</b>	Programs and homework submitted after the due date will be penalized at the rate of 10% for every day by which it is late. Late submissions will not be accepted after four days.
<b>Class Attendance</b>	Voluntary. However, regular attendance is recommended (see participation). A student absent five or more classes will not be eligible for an incomplete grade. In such instances the student is advised to drop the course.
<b>Participation</b>	Participation is an in-class activity.
<b>Classroom Citizenship</b>	The instructor encourages students to take active part in class discussions. No question is too simple/stupid to be asked. So, do not hesitate.
<b>Instructor Expectations</b>	Students will: <ul style="list-style-type: none"><li>a. Be on time to lectures.</li><li>b. Be attentive to lectures.</li><li>c. Be respectful of other's need to avoid distractions.</li><li>d. Perform their own work unless directed to participate in a group activity.</li><li>e. Avoid the use of any premade works of answers (the use of which constitutes cheating).</li><li>f. All student work done outside the classroom will be typewritten.</li></ul>
<b>UT Dallas Syllabus Policies and Procedures</b>	<i>The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.</i>  <i>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</i>

***These descriptions and timelines are subject to change at the discretion of the Professor.***