

<b>Instructor</b>	Rex Page	<b>Class Meetings — SEC M204</b>
<b>Phone/email</b>	325-5408 / page@ou.edu	Mon/Wed 3:30 - 4:45
<b>Office Hours</b>	Monday/Wednesday 10:30-11:30, EL119	
<b>Assistant</b>	Matt Griffin	
<b>Asst Office Hrs</b>	Mon/Wed 7:00-9:00pm, Tues 5:30-7:30pm, Thurs 4:00-6:00pm, EL 153	
<b>Q/A Lab Sessions</b>	Tuesday 8:00pm, Room CEC439 — <i>attendance not required</i>	
<b>Course Website</b>	Access through <a href="http://coursetnet.ou.edu">http://coursetnet.ou.edu</a>	

**Note: Make sure you can receive email through CourseNet.  
 Many essential communications will come only through this channel.**

**Prerequisite** CS 1323 Fundamentals of Computer Programming

**Required Text** *Discrete Mathematics Using a Computer*, Hall & O’Donnell, Springer, 2000  
*contribution to grade*

<b>Required Work</b>	Problem Sets (about 10)	10%
	Ten-Minute Pop Quizzes (5-10, lowest score dropped, no make-ups)	10%
	Midterm 1 (Wednesday, February 21)	20%
	Midterm 2 (Wednesday, April 4)	20%
	Final Examination (Tuesday, May 8, 4:30-6:30pm)	40%

**Learning Goals** Successful students will be able to apply mathematical logic and methods proof to software development. Students will also study sets, trees, graphs, functions, relations, set cardinality, counting, and algorithm complexity.

<b>Lesson Plan</b>	<u>week</u>	<u>Mon</u>	<u>Wed</u>
	1	Jan 15 holiday, no class	Jan 17 1: Overview; Course plan
	2	Jan 22 2: Intro Ch 2 - § 2.4.3	Jan 24 3: Intro §2.5 - §2.5.3
	3	Jan 29 4: §§2.5.4 - 2.5.5	Jan 31 5: §§2.5.6 - 2.5.7
	4	Feb 5 6: §§2.5.8 - 2.6.3	Feb 7 7: Intro §2.7 - §2.7.4
	5	Feb 12 8: §§2.7.5 - 2.11	Feb 14 9: Intro Ch 3 - §3.3.1
	6	Feb 19 10: review	Feb 21 <u>Midterm 1</u>
	7	Feb 26 11: §§3.3.2 - 3.3.4	Feb 28 12: §§3.4 - 3.6
	8	Mar 5 13: Ch 4	Mar 7 14: Intro Ch 5 - §5.2
	9	Mar 12 15: Intro Ch 7 - §7.3, §7.5	Mar 14 16: §§5.3-5.7, §7.7
	10	Mar 19 break, no class	May 21 break, no class
	11	Mar 26 17: Ch 6, §§7.8 - 7.11	Mar 28 18: real world (no new reading)
	12	Apr 2 19: review	Apr 4 <u>Midterm 2</u>
	13	Apr 9 20: loop inv (no new reading)	Apr 11 21: trees (no new reading)
	14	Apr 16 22: search (no new reading)	Apr 18 23: AVL trees (no new reading)
	15	Apr 23 24: Big O (no new reading)	Apr 25 25: Ch 8
	16	Apr 30 26: Ch 9	May 2 27: review
		May 8 (Tuesday) <u>Final Examination</u> , 4:30 - 6:30pm, Sarkey Energy Center M204	

**Preparation** Students are expected to study the assigned material before the class meeting in which it will be covered. Reading assignments begin with Chapter 2. Bits of Chapter 1 should be read as needed to review notations explained in class.

Many of the required exercises will involve the use of software such as the Hugs interpreter for the Haskell programming language and special tools provided by the authors of the textbook to facilitate learning the concepts it presents. This software can be downloaded through from the CourseNet website. The Hugs interpreter is also available on ECS computers.

all reading assignments from Hall/O’Donnell