

**TEXT:** Brief Calculus: An Applied Approach, 8th Edition by Larson; Published by Houghton-Mifflin.

**PREREQUISITES:** Two years algebra and one semester precalculus in high school or Math 101 or equivalent. Your most recent grade in the prerequisite must be C, P or better. If you had this prerequisite in high school or some place other than UNL, UNO, or UNK, then you must also have a qualifying score on the UNL Math Placement Exam dated after October 2009 or you must have previously received a grade of D or D+ at UNL, UNO, or UNK in Math 104. The Department of Mathematics will drop all students who do not satisfy this policy (see the Math Placement Policy on page 72 in the Spring Schedule of Classes).

**\*ACE Outcome 3\*:** This course satisfies ACE Outcome 3. You will apply mathematical reasoning and computations to draw conclusions, solve problems, and learn to check to see if your answer is reasonable. Your instructor will provide examples, you will discuss them in class, and you will practice with numerous homework problems. The exams will test how well you've mastered the material.

**TAKING THE MPE VIA COMPUTER:** A picture ID will be required and calculators are allowed at the exam. Other students who need to take the math placement exam may do so through our new computerized setup. NOTE: The student must already have been admitted to UNL and entered into the course registration computer database (MyRED) to be able to take the online version of the Math Placement Exam. Please review all policies via <http://www.math.unl.edu/resources/undergraduate/mpe/>.

**NEED HELP:** Go to the Mathematics Resource Center located in Avery 13B.  
MRC Hours are: 12:30—8:30 p.m. Monday—Thursday; 12:30—2:30 p.m. on Friday; and 1:00—5:00P on Sunday

**SPECIAL REVIEW/STUDY SESSIONS:** 4:00-5:00P every Tuesday and Thursday in Morrill Hall, Room 141

**CALCULATOR:** You will need to have a scientific calculator that will compute logarithms and exponentials (for example: TI-30Xa, TI-36X, Casio fx-260, Casio fx-300w, Casio fx-115v, Casio fx-300 MS, Sharp EL-531v, etc.). **GRAPHING CALCULATORS ARE NOT ALLOWED ON EXAMS AND QUIZZES.**

**VARIATIONS IN THIS SYLLABUS:** This syllabus is an approximate schedule and guide. Instructors may vary the pacing, content, exam schedule, or even the number of exams. If you must miss a class, please make arrangements to get important class announcements. You should read the lecture material before class, and do the indicated homework after the lecture on the material. **ALL** sections will take the **SAME** final exam during the **SAME** scheduled time as a unit.

**HOW TO USE THIS SYLLABUS:** You are expected to read the section covered on each lecture prior to class, and to try and solve some problems from that section as well. After lecture, and prior to the following lecture, you should try and finish the problems from the covered section, seeking help as needed.

**IMPORTANT DATES:** Friday, January 21, is the last day to withdraw from this course and not have it appear on your transcript. Between January 22 and April 8 you can drop this course and receive a grade of "W" for any reason. After April 8, you cannot drop this course. March 4 is the last day to change your grade option to or from Pass/No Pass.

WEEK	SECTION	ASSIGNMENT
Jan 10	(Review)	p. 65: 31, 41, 43, 56, 62, 66, 67, 93, 94; p.78: 23, 24, 37, 41, 45, 67, 72
	1.5	p. 92: 17, 19, 20, 29, 35, 37, 39, 41-44
	1.5	p. 93: 45-47, 51-65 odd, 66, 68
<b>JANUARY 17 (Monday): Martin Luther King Day Holiday</b>		
Jan 18	1.6	p. 102: 7, 9, 13, 17, 22, 27, 37, 39, 45, 46
	2.1	p. 124: 19, 23, 31, 45, 48, 51, 56
Jan 24	2.2	p. 135: 9-27 odd, 31-45, 50, 53-56, 67, 68
	2.3	p. 149: 5, 6, 9, 21, 22, 23-33 odd, 36
	2.4	p. 161: 3-19 odd, 29, 33, 35, 39, 43, 47, 48, 57
Jan 31	2.5	p. 172: 23-45 odd
	2.5	p. 172: 51-65 odd, 73, 75
	<b>EXAM 1</b>	
Feb 7	2.6	p. 179: 5, 8, 11-13, 17, 25, 33, 35, 39, 41
	2.7	p. 186: 1, 5, 6, 8, 13, 17, 19, 25, 35, 39
	2.8	p. 194: 3, 5, 12, 17-22
Feb 14	3.1	p. 213: 1, 6-8, 15, 25, 26, 27, 31, 32, 37, 42
	3.2	p. 223: 5, 9, 10, 12, 16, 21, 25, 37, 39
	3.3	p. 232: 2, 5-9, 11, 12, 14, 19, 31, 34, 52, 59, 60, 63, 64, 73
Feb 21	3.4	p. 241: 1-6, 11, 12, 15, 43
	3.5	p. 252: 1-7, 9, 11-15, 17
	Catch up	

Feb 28	<b>EXAM 2</b>	
	3.6	p. 263: 3, 6, 7, 9-12, 13-19 odd, 27, 28, 29, 35, 39, 45, 59, 67, 68
	3.7	p. 273: 7, 10, 19, 37

**March 4 (Friday) is the last day to change your grade option to or from Pass/No Pass.**

March 7	3.8	p. 281: 3-17 odd, 25, 28, 29, 33
	3.5 (Price elasticity)	p. 253: 27-34, 37, 38
	4.1	p. 297: 1, 3, 5, 13-18, 31, 35

March 14	4.2	p. 305: 2, 3, 5-10, 25-39
	4.3	p. 314: 5-15, 17-27 odd, 33, 34, 39
	4.4	p. 323: 3, 7, 19, 29, 33, 39, 43, 57, 63, 75-78, 81

**MARCH 20—MARCH 27 (Sunday through Sunday): Spring Break**

March 28	4.5	p. 332: 5-23, 49, 50, 55, 57, 61, 67, 83
	Catch up	
	<b>EXAM 3</b>	

April 4	4.6	p. 341: 5, 11, 17, 18, 25-35 odd, 36
	5.1	p. 362: 1, 3, 11-25, 27-37 odd, 50-70 even
	5.2	p. 372: 9-27 odd, 35-41 odd, 49, 51, 53

**APRIL 8 (Friday): Last day to withdraw from this course and receive a grade of "W"**

April 11	5.3	p. 379: 3-19 odd, 22, 25, 26, 28, 39, 45, 47, 48, 52
	5.4	P. 391: 13, 14, 17, 19, 23-45 odd; <b>p.414:</b> 45, 46
	5.4	p. 392: 67-72, 79-84, 95, 96; <b>p.415:</b> 71

April 18	5.5	p. 400: 1, 3, 5, 15, 17, 20
	5.5	p. 401: 23, 26, 35, 41-45
	<b>EXAM 4</b>	

April 25	5.6	p. 407: 1-8
	Review	p. 287: 3, 29, 37, 59, 71, 78, 93
	Review	p. 348: 39, 40, 43, 81, 97; <b>p.200:</b> 35, 37, 51, 91

**FINAL EXAMINATION: Tuesday, May 3, 2011  
6:00—8:00 p.m.**

**ROOM TO BE ANNOUNCED**

**You are expected to arrange your personal and work schedule to allow you to take the exam at the scheduled time. Students with conflicting exam schedules may be allowed to take an alternate final, which is always given after the regularly scheduled final. No student will be allowed to take the final exam early. A picture ID (drivers license or student ID) is required to take the final exam.**

**Department Grading Policy:** Students who believe their academic evaluation has been prejudiced or capricious have recourse for appeals in order, to: their instructor; the Chair of the Mathematics Department; the Mathematics Department grading appeals committee; and lastly, the College grading appeals committee.