

MATH 31A(2) WINTER 2012

Time and Place: MWF 2:00, Franz Hall, 1260 (new room!)

Text: Jon Rogawski, *Calculus, Single Variable, Second Edition*

Material: Sections 2.1-2.6, 3.1-3.9, 4.1-4.6, 4.8, 5.1-5.6, 6.1-6.4. The schedule of homework assignments (written below) gives you a rough idea of the sections to be covered in each lecture.

Homework: Due each Wednesday, starting January 18, at the beginning of class and returned the following week in Quiz Section. On the top left of the first homework page put your name (first and last), your TA's name and the number (2.a - 2.c) and day (Tuesday or Thursday) of your quiz section. Put your name on every additional homework page and staple your homework pages together. Write on only one side of each page and write in ink. Place your homework in the homework box in the slot, A, B, or C, corresponding to your quiz section. Late homework is not accepted.

The 9 homework assignments are listed below. It should take you about 8 hours per week to do the homework. You may work together on the homework problems but you must write up your solutions individually. The homework problems will vary in difficulty from the very routine to the quite challenging. Your two lowest homework scores will not be counted.

Quizzes: Six times during the quarter there will be a 20 minute quiz at the beginning of your the quiz section. Quizzes will usually consist of 3 or 4 problems similar to that week's homework. Quiz questions are multiple choice and you must put your answers in pencil on a Scantron card No. 882-E. Scantron cards are available in the UCLA student store. You may not use your book, notes calculator or computer during the quiz. Your lowest quiz score will not be counted. Quiz dates are:

Tuesday sections: 1/17, 1/24, 2/14, 2/21, 3/6, 3/13.

Thursday sections: 1/19, 1/26, 2/9, 2/16, 3/1, 3/8.

Midterms: During class time, at a location to be determined.

February 1; Section 2.1 - Section 3.9.

February 29; Section 2.1 - Section 5.3 (not Section 4.7).

Final: March 19, 11:30 - 2:30, at a location to be determined. The final covers all course material. It will be 2 – 2.5 times as long as one midterm.

NOTES:

1. Turn off all cellphones during class.
2. Bring some photo ID to each quiz and exam. Makeup exams are not given. Books, notes, calculators, computers and phones are not allowed at the Quizzes, the Midterms or the Final. However for each Midterm and the Final you may bring a 4×6 note card with anything you wish written on it. You will write your solutions on the exam paper we give you and thus you do not need to bring paper or an exam booklet to the exam. Write your exam solutions with a pen.

3. Your examinations will be graded very carefully but if you think part of your exam was graded incorrectly, bring your exam to me within one week of the day it was returned to you. Be advised that if we regrade your exam your score could become lower.

Grades: Your grade will be the larger of

$$.10(\text{Quizzes}) + .50(\text{Final}) + .40(\text{Midterms})$$

and

$$.10(\text{Quizzes}) + .60(\text{Midterms}) + .30(\text{Final}).$$

Very good (or very poor) homework scores will be used to raise (or lower) your grade, especially in borderline cases.

Homework Assignments:

January 18: Section 2.1; Exercises 4, 7, 22, 24. Section 2.2; 2, 5, 6, 18, 37, 48. Section 2.3; 2, 13, 22, 26, 32. Section 2.4; 2, 3, 4, 28. Section 2.5; 1, 14, 26, 39.

January 25: Section 2.6; Exercises 3, 9, 22, 34, 42. Section 3.1; 3, 9, 10, 21, 34; Section 3.2; 14, 18, 52, 57. Section 3.3; 6, 24, 43, 52. Section 3.4; 7, 16, 25.

February 1: Section 3.5; 7, 28, 40, 41. Section 3.6; 17, 36. Section 3.7; 5, 21, 58. Section 3.8; 12, 36, 40, 44. Section 3.9; 6, 16, 25, 28.

February 8: Section 4.1; 2, 7, 27, 30. 4.2; 1, 10, 18, 36, 38.

February 15: Section 4.3; 2, 12, 14, 20, 28, 50. 4.4; 2, 16, 18, 26, 31, 38. 4.5; 2, 10, 26, 52.

February 22: Section 4.5; 30, 42, 54. 4.6; 2, 4, 6, 12, 16, 20. 4.8; 3, 16, 34, 40, 50, 66.

February 29: Section 5.1; 12, 26, 42, 54, 62, 66. 5.2; 14, 16, 44, 58, 76. 5.3; 8, 10, 16, 29, 50, 52.

March 7: Section 5.4; 4, 6, 12, 25, 30. 5.5; 1, 2, 8, 15, 16.

March 14: Section 5.6; 8, 14, 30, 70, 79, 82. 6.1; 2, 14, 21, 34, 46. 6.2; 2, 6, 10, 26, 56.

Not to hand in: Section 6.3; 6, 16, 24, 40. 6.4; 4, 12, 22.

Office Hours:

J. Garnett, MW 5 - 6, and by appointment, MS 7941

M. Hall, TTh 3 - 4, MS 3955

M. O'Brien, T 1-2, 3-5, MS 3973.

D. Taylor, T. 9 - 10, 10:30 -11:30, MS 5351Q.

Student Math Center (SMC), Mathematical Sciences 3974, open M - Th. 9:00 - 3:00 beginning January 11. The SMC provides free individual or group tutoring for all lower division mathematics courses. No appointment is necessary. You may ask any Teaching Assistant in attendance for help with Math 31A.

Please come to my office hours if you have questions about the course or about mathematics in general. You must come if you fail the first midterm. J. Garnett