

APPLIED CALCULUS I
Mathematics 131 SSI
Summer 2011, Providence Campus

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TEXT: *Applied Calculus* by Hughes-Hallet, et. al., 4th edition

We will cover most of chapters 1-7 in the text. We will cover roughly three sections per class. Refer to the attached course schedule and make sure to read the text before class. Lectures will assume students' basic familiarity with the material before class. Pay attention to the examples and how to formulate the contents into mathematics.

GRADING: Your course grade will be based on a total score of 300 points: quizzes 150 points and a comprehensive final exam 150 points. See below for details.

A rough guideline for grading is as follows:

A: 93%, A-: 90%, B+: 87%, B:83%, B-: 80%, C+: 77%, C: 73%, C-: 70%, D+: 65%, D: 60%

HOMEWORK: Attached is the schedule of homework problems for the course. Although homework will not be collected, I strongly urge you to try all suggested problems. Additional problems may be assigned later. It is crucial to keep up by working all assigned problems and asking about any you cannot solve during classes. *Quizzes and the final exam are based on homework problems.*

QUIZZES: There will be a 20-25 minute quiz in each class. Quizzes are based on selected homework problems and examples presented during the lectures. You may use your notes and calculators for the quizzes. However, books are not allowed. There will be eight quizzes in this course, and two of your lowest scores will be dropped from your course grade. There will be no makeup quizzes.

FINAL EXAM: The final exam will be given on June 23, the last day of class. I will provide more information about the final exam near the end of the course. **DO NOT MISS THE FINAL EXAM.** No books or notes are allowed. About 80% of the problems of the final exam will be similar to problems on the assigned problems list and the quizzes. The remainder will require a little deeper mastery of the material.

SUMMER 2011 MTH 131 APPLIED CALCULUS I
SYLLABUS AND CALENDAR

The following calendar gives a timetable for the course and suggested practice problems.

Note: notation like "3-9" means that all problems from 3 to 9 are suggested.

Date	Sections	Suggested Practice Problems from the Text
May 24	1.1, 1.2, 1.3	1.1: 1-5,7,9,10,16,17,18,19,22,23 1.2: 1,3,5,7,9,11,12,13,15,16,19,23,27 1.3: 1,3,5,6,7,9,11,12,13,17,19,21,27,28
May 26	1.5, 1.6, 1.7	1.5: 1,2,3,5,7,8,9,11,13,17,18,19,21,23 1.6: 1-15 odd,16,21,22,23,24,25,27,29,31,33,35, 36 1.7: 1,2,3,6,8,10,13,15,16,18,19,23,29
May 31	1.10, 2.1, 2.2	1.10: 3,5,7,9,11,15,19,21,23,25 2.1: 1,3,4,5,7,8,9,10,11,13,15,17,19,20,25 2.2: 3,7,9-12,13,17,19,21,29
June 2	2.3, 2.4, 3.1	2.3: 1,3,4,7,9,10,17,20,21,23 2.4: 1,3,5,9,10,11,12,15,17,19,22,23 3.1: 1-34 odd, 37,41,44,45,47,51,59
June 7	3.2, 3.3, 3.4	3.2: 1-22 odd,25,27,29 3.3: 1-34 odd,37,39,41,44,49,51 3.4: 1,3-33 odd,35,39,44;
June 9	3.5, 4.1, 4.2	3.5: 1-20 odd,21,23, and p.173: 1-64 odd; 4.1: 1,3,5,7,9,10,11,15,16,,18,19,21,23,27; 4.2: 1,3,5,7,9,12,13,15,17,19,24;
June 14	4.3, 4.7, 4.8	4.3: 3,11,12,13,17,19,20,23,25,30,31,35,43 4.7:1,2,4,7,9 4.8: 1,3,6; 5.1: 1,2,37,8,9,11,14,18
June 16	5.1, 5.2, 5.3	5.2: 1,2,5,9,15,16,21-27; 5.3: 1,3,6,7,9,11,16,19,22,25,27,29,32
June 21	5.4, 5.5, 7.1	5.4: 1-5,7-9,13,22,23 5.5: 5,11,13 7.1: 1-66 odd
June 23	Final Exam	