Math 132, Spring 2001
Information and Lesson Schedule

Sections and Faculty:

<table>
<thead>
<tr>
<th>MWF</th>
<th>Instructor</th>
<th>e-mail:*@math.wustl.edu</th>
<th>Ph: 935-*</th>
<th>Office: Cupples 1</th>
<th>Office Hours:</th>
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<tbody>
<tr>
<td>10-11</td>
<td>Conlon</td>
<td>lc</td>
<td>6797</td>
<td>107A</td>
<td>MF 11-12</td>
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<td>jd</td>
<td>4737</td>
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<td>TBA</td>
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Mathematics Department Office: Cupples I, Room 100, (935-6760).

Text: *Calculus: Concepts and Contexts*, James Stewart, Section 4.9 and Chapters 5-8.

Bulletin Board: Announcements, exam seating assignments, exam scores and other information will be posted at the Math 132 Bulletin Board on the first floor hall of Cupples I. Exams will be returned in a cabinet near the Bulletin Board a week or two after the exam.

Calculators: Each student should have a graphics calculator. The instructors and TA's will be using TI-83's. Most other graphics calculators are also OK. A few "fancy" models are not allowed. (Details are in the General Information for Large Math Courses handout.)

Classes: Classes begin seven minutes after the hour and end on the hour. Late arrivals and early departures are both rude and disruptive, please avoid them. Attendance is not taken but you are responsible for any material covered in class and any announcements made there.

Homework: Some of the assigned problems are routine, others require more thought. It is essential that you try to do as many problems as possible. Doing problems is the best way to test whether you understand the material and to
find areas where you need more work. You can’t learn calculus by watching your instructor, or TA, or study partners solve problems. Be careful, it is quite common to think that you can do a problem but get stuck when you actually try to write down the details. You will find writing a clear set of solutions very useful, both at the time and later when you study. The answers to most odd-numbered questions are in the back of the book. The Student Solutions Manual that contains more complete solutions to odd-numbered problems is available at the bookstore. If you are interested, consider sharing a solutions manual with friends to save money. A few even-numbered problems are assigned; you and your classmates should be able to confirm those answers by comparing results.

Discussion Sections: Each student should be registered for a discussion section for this course. These sections begin the week of January 22nd. The discussion sections are led by teaching assistants (TA’s) who will be able to answer general questions about the material as well as questions about homework problems.

Quizzes: The week of January 22nd and most other weeks there will be a short quiz during the last part of the discussion section. Quizzes generally have two questions, worth a total of 6 points. There will be 10 quizzes. Four low scores will be discarded but at most two of the last four scores can be discarded. If you miss a quiz, a grade of 0 is assigned. There are no makeup quizzes.

| Some quiz questions will be modeled on assigned homework problems or worked out examples from the text. |
| Tuesday quizzes are based on assigned material from the preceding M-W-F. |
| Thursday quizzes are based on assigned material from the preceding W-F-M. |
| It is relatively easy to do well on quizzes. Quiz scores have a significant role in determining final grades. |

Exams: There will be three evening examinations and a final.

| Exam I | Tuesday, February 13th , 6:30-8:30 PM |
| Exam II | Tuesday, March 20th, 6:30-8:30 PM |
| Exam III | Tuesday, April 17th , 6:30-8:30 PM |
| Final | Wednesday, May 9th, 3:30-5:30 PM |
Exam room assignments and seating charts will be posted on the bulletin board just before each test. Alternatively, consult http://www.math.wustl.edu.

Exams will consist of a multiple-choice section (~75%) and a hand-written section (~25%). You should also bring your WU photo ID, and pencils. For each exam you may bring one handwritten 3” × 5” card with notes.

Legitimate excuses for missing an exam (such as verified illness or a family emergency) must be approved by Professor Jack Shapiro (Cupples I, 107B, 935-6787). In such cases there will not be a make-up exam; instead the statistical technique of multilinear regression will be used to estimate your missing score. (The details are complicated but the method takes into account both how you did on the exams you took and the difficulty of the various exams; you aren’t penalized if the exam you missed was an easy one.) Students who miss the final exam with a legitimate excuse will take a make-up exam at the beginning of the next semester. Unexcused absences from an exam receive a score of 0.

Grades: Your grade for the course will be based on your scores on the tests, final, and quizzes. The three tests and the final will count equally, 100 points each. Only six quiz grades will be used including at least two of the last four. The quiz total will be scaled to count as 1.5 exams; 150 points. Your grade will then be computed a second time dropping the lowest mid-semester exam and with the final counted twice. The higher of the two percentage grades will be used.

A final scale determining letter grades will be determined at the end of the course. However the following information may be useful:

- Our intent is that you will need a score of 50% or more of the possible points to pass (D or better). With this in mind we design exams and quizzes so that roughly half the material tested covers minimum basic competency.

- The average grade in Math 132 in recent years has often been in the vicinity of B-/C+. However that reflects instructors’ evaluations of previous classes, not a policy or formula.

- If you are taking the course CR/NCR (or “pass/fail”) you need a D or better for a CR.

- The final grading scale will be no more severe than on the following table. It may be more lenient.
<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100%</td>
<td>A±</td>
</tr>
<tr>
<td>80-89.9%</td>
<td>B±</td>
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<tr>
<td>65-79.9%</td>
<td>C±</td>
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<tr>
<td>50-64.9%</td>
<td>D</td>
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<tr>
<td>0-49.9%</td>
<td>F, NCR</td>
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**Lesson Schedule and Assigned Problems:** The problems in the text marked with a calculator icon require calculators. *If there is no icon you should be able to do the problem without the calculator.* Of course you may still find the calculator useful for checking your work.

**Week 1, January 15th to January 19th, No Quiz**

Mon. 1/15  No class  
Wed. 1/17  4.9:  1-13 odd, 17, 21, 23, 24, 25, 26  
Fri. 1/19  4.9:  15, 19, 33, 37  
           5.1:  1, 2, 3, 9, 11

**Week 2, January 22nd to January 26th, Quiz 1**

Mon. 1/22  5.2:  1, 2, 3, 5, 11, 21, 23, 25, 27  
Wed. 1/24  5.2:  29, 30, 31, 32  
           5.3:  1, 3, 4, 6, 7, 9, 11, 13, 17  
Fri. 1/26  5.3:  31, 43, 45, 49, 50, 55, 56

**Week 3, January 29th to February 2nd, Quiz 2**

Mon. 1/29  5.4:  1, 2, 5, 7, 9, 11, 13, 15, 23  
Wed. 1/31  5.5  1, 3, 5, 7, 19, 23, 25, 37, 45, 53, 65  
Fri. 2/2   5.5  9, 11, 15, 25, 31, 43  
           5.6  1, 3, 5, 7, 11, 15

**Week 4, February 5th to February 9th, Quiz 3**

Mon. 2/5   5.5:  17, 39, 49, 53, 57  
           5.6:  17, 19, 21, 29, 41  
Wed. 2/7   5.7:  1, 3, 5, 7  
           (Table of integrals and p. 413  
           AF:  1, 5, 13, 29 (Case I only.)  
Fri. 2/9   5.8:  1, 3, 5  
           (Omit the trapezoidal rule and associated problem parts.)
**Week 5, February 12th to February 16th, No Quiz, Exam I**

Mon. 2/12 5.8:  11, 23, 25  
(Omit the trapezoidal rule and associated problem parts.)

Tue. 2/13  Exam I 6:30-8:30 PM.  
The exam will cover 4.9-5.7 and AF.

Wed. 2/14  5.9:  1, 3, 5, 9, 11, 13  
(Omit the comparison test.)

Fri. 2/16  5.9:  15, 17, 23, 25, 31, 35, 59

**Week 6, February 19th to February 23rd, Quiz 4**

Mon. 2/19  6.1:  1, 5, 7, 11, 21, 23, 27  
Ch. 5 Review: CC 1-8 and T/F 1, 3, 5, 7, 11, 12

Wed. 2/21  6.2:  1, 5, 7, 9, 11, 15, 17, 19

Fri. 2/23  6.3:  1, 2, 3, 5, 9, 17  
6.4:  1, 5, 7, 9, 11

**Week 7, February 26th to March 2nd, Quiz 5**

Mon. 2/26  6.5:  1, 3, 5, 7, 9, 11, 25, 27, 29, 31

Wed. 2/28  6.6:  1, 3, 5, 7, 9, 13, 14

Fri. 3/2  6.7  1-5, 7, 9, 11

**Week 8, March 5th to March 9th, Quiz 6**

Mon. 3/5  Ch. 6 Review: CC, Ex. 1, 5c, 11, 13, 15, 17, 25

Wed. 3/7  7.1:  1, 2, 3, 5, 7, 9, 11

Fri. 3/9  7.2  1, 3, 4, 5, 6, 9, 11

**March 6th to March 10th, Spring Break**

**Week 9, March 19th to March 23rd, No Quiz, Exam II**

Mon. 3/19  7.3:  1, 2, 3, 5

Tue. 3/20  Exam II 6:30-8:30 PM  The exam will cover 5.8-7.2

Wed. 3/21  7.4:  1, 3, 7, 9, 11, 15  
(Omit orthogonal trajectories.)

Fri. 3/23  7.4:  27, 29, 31  
7.5:  3, 5, 9, 11, 17, 18
Week 10, March 26th to March 30th, Quiz 7

Mon. 3/26  7.6  1, 3, 5, 7, 9
Chapter 7 Review: CC 1-7, TF, Ex. 3, 13
Wed. 3/28  8.1:  1, 2, 3, 5, 7, 9, 11, 13, 15, 19, 23
Fri. 3/30  8.1:  25, 27
            8.2:  1, 2, 3, 11, 13, 17

Week 11, April 2nd to April 6th, Quiz 8

Mon. 4/2   8.2:  15, 19, 21, 23, 31, 33, 35, 53
Wed. 4/4   8.3:  1, 2, 3, 5, 7, 9, 11, 15
Fri. 4/6   8.3:  13, 17, 19, 23, 31, 33

Week 12, April 9th to April 13th, Quiz 9

Mon. 4/9   8.4:  1-9, 13, 17
Wed. 4/11  8.4:  19-27, 31, 35
Fri. 4/13  8.5:  1, 2, 3, 5-15 odd

Week 13, April 16th to April 20th, No Quiz, Exam III

Mon. 4/16  8.5:  17, 19, 21, 23
Tue. 4/17  Exam III 6:30-8:30 PM  The exam will cover 7.3-8.4.
Wed. 4/18  8.6:  1, 2, 3, 5, 9, 13, 19
Fri. 4/20  8.6:  11, 23, 27, 31

Week 14, April 23rd to April 27th, Quiz 10

Mon. 4/23  8.7  1, 2, 3, 7, 11, 13, 19
            (Omit Multiplication and Division of Power Series.)
Wed. 4/25  8.7:  23, 29, 33, 35, 45, 47
Fri. 4/27  8.8:  1, 3, 5, 7

Final Exam, Wed., May 9th, 3:30–5:30 PM
The final will cover the entire course