# MAC 2233- Methods of Calculus - Spring 2013

## Course Syllabus

<table>
<thead>
<tr>
<th><strong>Instructor:</strong> Frederick Hoffman</th>
<th><strong>Office:</strong> Science building, 2nd Floor. Room 212A.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Section:</strong> MAC 2233-002</td>
<td><strong>CRN:</strong> 13271</td>
</tr>
<tr>
<td><strong>Class Time:</strong> MWF 8:00-8:50 a.m.</td>
<td><strong>contact:</strong> <a href="mailto:Hoffman@fau.edu">Hoffman@fau.edu</a></td>
</tr>
<tr>
<td><strong>Office Hours:</strong> MWF 9:00 a.m. - 9:55 a.m. and by appointment.</td>
<td><strong>contact:</strong> 561-297-3345</td>
</tr>
<tr>
<td><strong>Classroom:</strong> PS 112</td>
<td><strong>Credits:</strong> 3 credit hours</td>
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<tr>
<td><strong>Homework:</strong> average of 2 to 3 study hours per class period, MyMathLabPlus regularly assigned, read each section of text before class, do text exercises</td>
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</tbody>
</table>

**Official Textbook:** *Brief Calculus and its Applications*, 12th Edition, by L.J. Goldstein, D.C. Lay, D.I. Schneider, and N.H. Asmar, ISBN 0321616995. (This ISBN is for the hard copy text and MyMathLab+.) Only the on-line version is required, although some students may prefer to buy the hard copy any way. On-line access to the text and other information is via MyMathLab+ (and access to MyMathLab+ is via Blackboard)

Please see INFORMATION ABOUT MyMathLab+ before buying the text book, to explore the different options available to you.

You will access MyMathLab+ through Blackboard. The first time you do this, you should see the license agreement. Once you are registered, you will continue to access MyMathLab+ through Blackboard. If you experience any difficulty with MyMathLab+ please address your enquiry to "technical support" (not to me) and always ask for (and write down) the "incident number": that is the best way to track the status of the problem.

If you try to buy MyMathLab+ from another source, it will be up to you to deal with any technical problems.

**Catalog Description:** A descriptive and intuitive introduction to the methods and applications of differentiation and integration. Primarily for social science and business administration majors. This is a General Education course.

**Prerequisites:** College Algebra (MAC 1105) or equivalent, with a grade of C or better.

**Note:** All students will take a test the first day of class to ensure that they have mastered the material from MAC 1105. These scores will be compared to ALEKS scores and any major discrepancies will be reported to the Dean of Undergraduate Studies.

**Computer Lab:** Many rooms in campus have software installed to run MyMathLab+. See LABS.

**Tutoring:** Tutoring by graduate students will be available Monday through Friday, at the MLC (Math Learning Center), located at GS 211. There may be also assistance by an SI leader. In addition, see OMA.

**Course Outline:** We shall try to cover most of the sections of the text book in chapters 1 to 6 and material from the first few sections of chapters 7 and 9, not necessarily all of them at the same pace. Minor reordering of sections
within a chapter may occur, for presentation purposes. The textbook contains more material than can be taught in one semester.

We assume that students will attend all lectures, read the text, complete all homework assignments as soon as possible, and study for exams. Students who purchased a hard copy of the textbook are strongly advised to bring the textbook to the classroom. Reading the material to be discussed in class before the class lecture helps. That way you get familiar with the terminology to be used, get some idea of what is coming and locate the topics and ideas that you find difficult.

Course Outline and Goal: the student will be introduced to a description of the basic methods of Differential and Integral Calculus, which together with illustrations and applications to Social Sciences and Business Administration will enable the student to reach the following goals:

Outcome:

1. Student is able to compute limits.
2. Student is able to compute derivatives.
3. Student is able to solve problems in related rates, and interpret results, with validation.
4. Student is able to determine the relative and absolute extreme values of a function and solve applied optimization word problems and interpret the results - validating answers by estimating results.
5. Student can sketch/graph curves: determining where a function is increasing/decreasing, concave.
6. Student can compute antiderivatives and definite integrals.
7. Student can find the area under a simple curve.
8. Student knows that the definite integral is a limit of a sum.

Tests (exams): There will be four midterm Tests, and a fifth, comprehensive common Final Exam. Prior to each Test the topics to be evaluated will be announced. The Final Exam will have questions of the type shown on the first four exams, and other questions to cover the material from the course. Tentatively, the tests are scheduled as follows:

Test 1: Friday, January 25, in class.

Test 2: Friday, February 15, in class.

Test 3: Friday, March 15, in class.

Test 4: Monday, April 5, in class.

Final Exam: Sunday, April 28, 6:45 - 9:15 p.m. Rooms: TBA
The final exam date and venue are set by FAU.

There will be no make-up exams: tests can be taken neither earlier nor later than the scheduled dates. Any midterm test missed will be graded as a zero.

IMPORTANT NOTE: The instructor reserves the right to schedule additional quizzes or other means of evaluation at any other time, with or without advance notice.

Grading Scale:

<p>| 50% | The best three midterm exams collectively (the lowest of the four scores will be dropped) |</p>
<table>
<thead>
<tr>
<th>Weight</th>
<th>Component</th>
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<tbody>
<tr>
<td>30%</td>
<td>Final exam</td>
</tr>
<tr>
<td>10%</td>
<td>MyMathLab+</td>
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<tr>
<td>10%</td>
<td>Written homework and/or quizzes</td>
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<tr>
<td>05%</td>
<td>(Bonus) Pretest: In class on the first day of class only</td>
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</table>

Students who do not take the final exam will receive a grade of "F".

The pretest score will be factored down to a score out of 5. So, 100% on the pretest gets you 5 points; 20% on the pretest gets you 1 point.

Each exam will usually have about 10% bonus points. However, the maximum possible recorded score for each exam will still be 100%. Please do not expect any further scaling beyond this 10% on the exams, the small number of bonus points for the test on Day 1, and the dropping of the lowest midterm exam score. This way, you will know your maximum possible grade at any time during the course.

Note also, that scores which should possibly receive grades of "C-" or "D+" have been merged in with the "C" range in the chart below. Please do not expect that scores below 60% will be raised.

Numerical Grades will be translated into Letter Grades according to the following scale:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>[90 - 100]</td>
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<tr>
<td>A-</td>
<td>[87 - 90]</td>
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<tr>
<td>B+</td>
<td>[83 - 87]</td>
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<tr>
<td>B</td>
<td>[80 - 83]</td>
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<tr>
<td>B-</td>
<td>[77 - 80]</td>
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<tr>
<td>C+</td>
<td>[73 - 77]</td>
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<tr>
<td>C</td>
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<td>D</td>
<td>[50 - 60]</td>
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<tr>
<td>F</td>
<td>[0 - 50]</td>
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</table>

**Midterm Grades:** At the time of the midterm grade reporting, we will have completed two exams. Your midterm grade reported will be based on those exams, even though one of them may end up being the exam grade that is dropped.

Similarly, if an instructor is asked for a grade report at any time (for example, by the Athletics Department), the grade will be based on the exams completed at that time.

**Grades posting:** With the exception of the final grade for the course, examination grades will always be posted through Blackboard at http://blackboard.fau.edu. You will log into Blackboard via myfau, and look under the "My Courses" tab.

For more information on this visit http://www.fau.edu/oit/password-requirements.php.

Neither your Instructor nor your Course Director can help you get your FAUNetID or your password. Refer to the instructions above to see your problem solved.

**Guidelines:** In every Mathematics course, you are expected to spend about three hours on homework for every class hour. Part of that time, you will do exercises from the previous lecture, part should be spent preparing for the next
lecture (read the section, try to do some exercises). The students are advised to avoid getting behind as it is difficult to catch up.

**Homework:** Exercises will be assigned and graded in Course Compass. Homework will have a due date so pay close attention to both date and time. However, it is the student's responsibility to be aware of any change that the instructor announces either in class or on this web page or in the Updates or through MMLab+.

**Advice:** Try to solve the computer-based homework and the problems from the text as soon as the corresponding section has been covered in class.

**Calculators:** Are required for some calculations, so make sure you know how to use your calculator's functions correctly. Your instructor will not instruct you on the use of your calculator.

Neither graphing calculators nor programmable calculators are allowed during the exams. Do not bring a programmable calculator into the room on exam days. You may not use a cell phone or any other electronic device as a calculator during the exams, nor will sharing of calculators be permitted. All electronic devices, with the exception of an acceptable calculator must be turned off during exams. In case you own a graphing calculator or a programmable calculator, it is wise to purchase a non-graphing calculator to use during the exams; they are very inexpensive.

**Dishonesty:** Dishonesty - either giving or receiving aid on a test, quiz, or the final examination - will result in an F for the course. Please, refer to the Honor Code in the Student Handbook available at HONOR CODE. Extracted from that is the following:

- "FAU has an honor code requiring a faculty member, student, or staff member to notify an instructor when there is reason to believe an academic irregularity is occurring in a course. The instructor's duty is to pursue any reasonable allegation, taking action, as described ..., where appropriate."

**Students with Disabilities:** In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute course work must register with the Office for Students with Disabilities (OSD) at US 133 (561-297-3880).

**Attendance:** Required. An occasional absence, with a valid reason, will not be penalized. It is understood that you have chosen this section because the lectures do not interfere with your other activities.

**Classroom Etiquette:** Please refrain from any act that may disturb lectures, or the work of others in the labs. Arrive on time and stay until the lecture is over. Turn off cell phones, beepers, ipods and computers during lectures. Use common sense to avoid any type of disturbance. If you really need to leave the room, do so without disrupting the lecture.

**Official Holidays** (no classes): January 21 (M.L. King Jr. Holiday), March 4 to March 10 (Spring Break).


**List of chapters and sections from the text**

Chapter 0: Functions.
*This material is prerequisite material. There will be homework assignments on this material, but it will not be systematically covered in class.*

§0.1 Functions and their graphs
§0.2 Some important functions
§0.3 The algebra of functions
§0.4 Zeros of functions -- the quadratic formula and factoring
§0.5 Exponents and power functions
§0.6 Functions and graphs in applications

Chapter 1: The derivative
§1.1 The slope of a straight line
§1.2 The slope of a curve at a point
§1.3 The derivative
§1.4 Limits and the derivative
§1.5 Differentiability and continuity
§1.6 Some rules for differentiation
§1.7 More about derivatives
§1.8 The derivative as a rate of change

Chapter 2: Applications of the derivative
§2.1 Describing graphs of functions
§2.2 The first and second derivative rules
§2.3 The first and second derivative tests and curve sketching
§2.4 Curve Sketching (conclusion)
§2.5 Optimization problems
§2.6 Further optimization problems
§2.7 Applications of derivatives to problems of business and economics

Chapter 3: Techniques of differentiation
§3.1 The product and quotient rules
§3.2 The chain rule and the general power rule
§3.3 Implicit differentiation and related rates

Chapter 4: The exponential and natural logarithm functions
§4.1 Exponential functions
§4.2 The exponential function $e^x$
§4.3 Differentiation of exponential functions
§4.4 The natural logarithm function
§4.5 The derivative of $\ln(x)$
§4.6 Properties of the natural logarithm function

Chapter 5: Applications of the exponential and natural logarithm functions
§5.1 Exponential growth and decay

Chapter 6: The definite integral
§6.1 Antidifferentiation
§6.2 Areas and Riemann sums
§6.3 Definite integrals and the fundamental theorem
§6.4 Areas in the $xy$-plane
§6.5 Applications of the definite integral

Chapter 7: Functions of several variables
§7.1 Examples of functions of several variables
§7.2 Partial derivatives

Chapter 9: Techniques of integration
§9.1 Integration by substitution (non-trigonometric only)

§9.2 Integration by parts
Exercises from the text

It is expected that each student will spend two to three hours doing homework for every class hour. MyMathLab+ will probably take about sixty to ninety minutes per week. The text has a much larger number and range of problems. Students are expected to start these problems from each section before the section is covered in class and to finish them within a few days after the section is covered in class. Note that there may be some overlap between the questions listed below and questions assigned in MyMathLab+.

Do some of the Supplementary Exercises as the topics are covered in class, rather than waiting until the entire chapter has been covered.

The instructor will collect some homework and/or give unannounced quizzes during the semester. Students who are absent on those days will receive scores of zero. Questions from the assigned homework listed below would be a reasonable source of questions for these collected homeworks and/or quizzes. The grading on each quiz or homework might be restricted to 1 or 0 (done acceptably or not done acceptably).

§0.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 44, 45, 46, 49, 52, 55, 58
§0.2 Exercises: 1, 4, 7, 10, 13, 16, 17, 18, 19, 22, 25, 28, 31, 34, 37, 38
§0.3 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37
§0.4 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40
§0.5 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 91, 94, 97
§0.6 Exercises: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50
Chapter 0 Supplementary Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 29, 31, 34, 37, 40, 43, 44

§1.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 63, 64
§1.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 32, 34, 37, 38
§1.3 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 78
§1.4 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 56, 57, 58, 59, 60, 61, 64, 67, 70, 72
§1.5 Exercises: 1, 4, 7, 10, 13, 16, 19, 22
§1.6 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 42
§1.8 Exercises: 1, 4, 7, 10, 13, 14, 16, 19, 22, 25, 28, 31, 32
Chapter 1 Supplementary Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 83, 84

§2.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52
§2.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 30, 32, 33, 34, 37, 40, 43, 44
§2.3 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46
§2.4 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 30, 31, 34, 37, 40
§2.5 Exercises: 1, 4, 6, 7, 10, 13, 16, 17, 19, 21, 22, 25, 28, 30 (with calculus and without), 31
§2.6 Exercises: 1, 4, 7, 10, 13, 16, 17, 19, 21, 22, 25, 27, 28, 30
§2.7 Exercises: 1, 4, 7, 10, 13, 16, 19, 22
Chapter 2 Supplementary Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 56, 57, 58, 61, 63

§3.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 65
§3.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58 (can you find more than one answer?), 61, 64
§3.3 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 47, 48
Chapter 3 Supplementary Exercises: 1, 4, 7, 10, 13, 16, 17, 19, 22, 25, 28, 31, 34, 37, 40, 41, 42, 43, 46, 49, 52

§4.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43
§4.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46
§4.3 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48
§4.4 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 48
§4.5 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 35, 36
§4.6 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 30, 31, 32, 34, 37, 40, 43, 46, 49, 52, 53, 54
Chapter 4 Supplementary Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 94, 95, 96, 97, 98

§5.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 26, 27, 28, 29, 31, 33, 34
Chapter 5 Supplementary Exercises: 1, 5, 6, 7, 10, 11, 12, 13, 14, 21, 23, 24, 25, 26

§6.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 56, 58, 61, 64
§6.2 Exercises: 1, 4, 7, 10, 13, 17, 18, 22, 25, 27, 28
§6.3 Exercises: 1, 4, 7, 10, 13, 16, 17, 18, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 48, 49, 50
§6.4 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 23, 24, 28, 29
§6.5 Exercises: 1, 4, 6, 7, 10, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 42
Chapter 6 Supplementary Exercises: Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 29, 30, 31, 34, 37, 40, 42, 46, 49, 53, 55, 56, 59, 60, 63, 64, 67, 69, 70, 73

§7.1 Exercises: 1, 4, 7, 8, 9, 10, 13, 16, 19, 22
§7.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 23, 24, 25, 28, 31, 34, 35, 36, 37
Chapter 7 Supplemental Exercises: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

§9.1 Exercises: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 35, 36, 37, 38, 39, 40, 53
§9.2 Exercises: 1, 4, 7, 10, 13, 16, 19, 20, 21
Chapter 9 Supplementary Exercises: 2, 3, 4, 6, 7, 9, 10, 12, 13, 14, 15, 16, 17, 18, 37, 39, 40

**Pacing Guide**

This guide shows approximately which material you will see on any given day. By reading across the rows, you can see an approximate schedule on a weekly basis. (As, for example, would happen in the Monday-Wednesday evening sections.)

The instructor may take more time on some sections and less time on others. It is not atypical to start a section in one lecture and finish that section in the next lecture.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/7/13-1/11/13</td>
<td>Day One Pretest, §1.1</td>
<td>§1.2</td>
<td>§1.3</td>
</tr>
<tr>
<td>2</td>
<td>1/14/13-1/18/12</td>
<td>§1.4</td>
<td>§1.5</td>
<td>§1.6</td>
</tr>
<tr>
<td>3</td>
<td>1/23/13-1/25/12</td>
<td>No Class 1/21/13 (MLK Day)</td>
<td>finish §1.6 and review</td>
<td>Exam 1</td>
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<tr>
<td>4</td>
<td>1/28/13-2/1/12</td>
<td>§1.7</td>
<td>§1.8</td>
<td>§2.1</td>
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<tr>
<td>Week</td>
<td>Dates</td>
<td>Sections</td>
<td>Notes</td>
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<td>5</td>
<td>2/4/13-2/8/12</td>
<td>§2.2</td>
<td>§2.3</td>
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<td>6</td>
<td>2/11/13-2/15/12</td>
<td>§2.5</td>
<td>§2.5 and review</td>
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<td>Exam 2</td>
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<td>7</td>
<td>2/18/13-2/22/12</td>
<td>§2.6</td>
<td>§2.6</td>
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<td>§2.7 (Midterm grades due)</td>
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<td>8</td>
<td>2/25/13-3/1/12</td>
<td>§3.1</td>
<td>§3.2</td>
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<td>§3.3</td>
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<td>3/4/13-3/8/12</td>
<td>No Classes (Spring Break)</td>
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<td>9</td>
<td>3/11/13-3/15/12</td>
<td>§3.3</td>
<td>§4.1 and review</td>
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<td>Exam 3</td>
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<td>3/18/13-3/22/12</td>
<td>§4.2</td>
<td>§4.3</td>
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<td>§6.2</td>
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<td>Friday: Exam 4</td>
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<td>13</td>
<td>4/8/13-4/12/12</td>
<td>§6.3</td>
<td>§6.4</td>
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<td>§6.5</td>
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<td>14</td>
<td>4/15/13-4/19/12</td>
<td>§7.1</td>
<td>§7.2</td>
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<td>§9.1</td>
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<td>15</td>
<td>4/22/13-4/24/12</td>
<td>§9.1 and review</td>
<td>review</td>
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<td>(no class on Friday)</td>
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<tr>
<td>16</td>
<td>Sunday 4/28/13, Final Exam, rooms TBA, 6:45 - 9:15 p.m.</td>
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</tbody>
</table>