Course Description
Math 136 is the second semester of the Math 135-136 sequence for students studying Life Sciences or Social Sciences. Math 136 is designed specifically for students who want a second semester of calculus for their technical background, but who do not intend to take further courses in Calculus or Differential Equations. Therefore, Math 136 offers a mixture of traditional Calculus II topics and of additional topics such as multivariate functions and constrained optimization using Lagrange multipliers that students are likely to meet in scientific applications.

Calculator
Most students find a graphing calculator useful in this course. The recommended calculator is the TI-83 Plus. The lecturer and the recitation instructor can provide limited help in the operation of these calculators. Students may use other brands and models of calculators, but they are on their own if they have problems. Calculators or any other electronic device will not be permitted on exams. During quizzes, the use of the calculator is restricted at the discretion of the recitation instructor.

Exams
There will be two 80-minute in-class exams and a cumulative final. The in-class exams will count 100 points each and the final will count 200 points. Exams will be closed-book and student-prepared formula sheets will not be permitted. An official formula sheet will be provided with each exam. The dates are tentatively, February 28th and April 10th. The actual dates will be announced in class. All exams are written by the lecturer.

Recitation
Homework problems are assigned for each lecture. Students are expected to work on all problems related to a particular lecture prior to the recitation devoted to that material. A selection of the problems will be asked to be collected on each recitation by the recitation instructor. Students are encouraged to ask questions in recitation about problems which they had difficulty with. At the end of the recitation period there will be a quiz consisting of a few problems similar to the homework problems. Together the quizzes will count 75 points toward the term grade, and the homework will count other 75 points.

Absences
If you are absent for an exam, with proper justification, you may be entitled to a make-up. To that end, you must notify as soon as possible and present the instructor with a document justifying your absence, for example, a Doctor’s note (in case of sickness), a tow truck bill (in case of car problems), a copy of the death certificate (in case of a family death), etc. For recitation absence policy, ask the recitation instructor.
General Study Guide
As a general rule students should spend 6 to 8 hours a week in reviewing lecture notes, reading the text book, doing homework, and review problems. Do your work honestly. We do encourage group discussion of the material, but each student must make sure he or she is prepared to solve problems individually on the exams and quizzes, so it is a good idea to do some individual work as well. Keep in mind that the exams and quizzes usually contain similar problems as in homework or reviews), so make sure that eventually you know how to solve those problems. The best way to do this is by trying on your own. In particular, you should avoid as much as possible the use of the solution’s manual.

Grading
Here are the components of the term grade with their maximum possible points:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Hour Exams</td>
<td>200</td>
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<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>Recitation Quizzes</td>
<td>75</td>
</tr>
<tr>
<td>Homework Problems</td>
<td>75</td>
</tr>
<tr>
<td>Total</td>
<td>550</td>
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Additional Help
Additional help can be obtained from the instructor during office hours, or via email (please identify yourself with your name, and section). If your schedule does not allow to get to office hours, you can ask for a meeting at a time of convenience.
There is a tutoring center in campus. Also Calculus Clinics are offered at the Math and Science Learning Center, ARC 328. Go to http://mslc.rutgers.edu for schedules and more information.

Practice Makes Perfect