AMS 161 : Applied Calculus II

December 21, 2015

About This Course

Analytic and numerical methods of integration; interpretations and applications of integration; differential equations models and elementary solution techniques; phase planes; Taylor series and Fourier series.

Text

Calculus Single Variable, by D. Hughes-Hallett et al., John Wiley & Sons

The edition of the text does not matter. I will provide the problems on the course website under the heading homework problems. You can typically find the book either at cheaper prices, or as a pdf file online. Also, consider this: https://www.whitman.edu/mathematics/calculus/calculus.pdf. I will pull some exam problems from this text.

Homework

Each week there will be homework questions assigned. It will be assigned on Tuesday, and it will be collected on Thursday of that week.

Examinations and Grading

There will be three homework assignments, two midterms and one final exam. The problems on each exam will be more of the difficult homework problems, and possibly a couple problems discussed in lecture. The following will be a table to provide a grading scheme:

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
<th>% of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>01/07/2016, 01/14/2016, and 01/21/2016</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm</td>
<td>01/8/2016 and 01/15/2016</td>
<td>40% (30% of the Highest Midterm Grade + 10% of the Lowest Midterm Grade)</td>
</tr>
<tr>
<td>Final</td>
<td>01/22/2016</td>
<td>40%</td>
</tr>
</tbody>
</table>

Make sure that you can attend the exams at the scheduled times; make-ups will not be given. Resolve any conflicts now. If one midterm exam is missed because of a serious (documented) illness or emergency, the semester grade will be determined based on the balance of the work in the course.

Office Hours

After lecture, I will hold office hours from 2:00 PM to 4:00 PM on Tuesday, Wednesday, Thursday and Friday. Otherwise, it will be by appointment. My office is room 1-125 in the Mathematics Tower.
Disabilities

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services at http://studentaffairs.stonybrook.edu/dss/ or (631) 632-6748. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:


Academic Integrity

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/uaa/academicjudiciary/.

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn.