1. Syllabus for Math 2263:

Instructor: Antoine Pauthier
email: apauthie@umn.edu
webpage: http://www.math.umn.edu/apauthie/
Office hours: @ Vincent Hall, 250. Hours: Monday Wednesday, 5:00 - 5:55 pm.
Course website: Moodle

- **Contents:** we will cover most of chapters 12, 14, 15 and 16 of Stewart’s book. It starts with a review of vectors and a discussion of common mathematical surfaces (Chapter 12). It quickly moves to the main topics for this course: partial derivatives (Chapter 14), multiple integrals (Chapter 15), and vector calculus (Chapter 16).
- **Calculators/cellphones:** basic scientific calculators are allowed in exam and quizzes. These are calculators that can evaluate trigonometric, exponential and logarithmic functions. Graphing calculators or calculators that can do symbolic manipulation WILL NOT be allowed during exams and quizzes.
- **Prerequisites:** Math 1272 or Math 1372 or Math 1572 w grade of at least C-.
- **Evaluation:** Your scores will be posted on Moodle throughout the semester. The course components will be weighted as follows in the final course grade:
  
  Homework: 9% total
  Quizzes: 16% total
  Midterm: 15% each
  Final: 30%

  I will drop the worst two scores, when computing your homework score and your quizzes score. This should be enough to cover all missed homework and quizzes due to unexpected circumstances. Consequently, NO late homework will be accepted, and there will be no make-up quizzes.

  - **Homework:** will be due on Mondays before the beginning of the lecture and graded out of 10 points. Your assignments will be graded individually, but I encourage you to work in groups and collaborate with fellow students on the problem sets. **There will be no late homework accepted, regardless of circumstance.**
  
  - **Quizzes:** exam dates and the first day of classes aside, **there will be quizzes every Wednesday.** They will cover the material of the most recent turned in homework. **There will be no make up quizzes, regardless of circumstances.**
  
  - **Expectations:** I am here to help you to learn multivariable calculus. I love answering questions and helping my students learn and I will do my best to accomplish this. You can expect that I will come to class on time, prepared and ready to answer questions. I expect that you will come to class on time, ready to learn, ask questions (and respect your colleagues when they ask questions) and take charge of your own success.

  - **Exams:** there will be three in class exams:

  Date: January 29, 2019.
There will be no make up exams, regardless of circumstances. Should the student have an excused absence on the date of the exam their final exam will be re-weighted to 45% of the final grade.

- **Final exam:** The final exam will take place on May 9, Thursday, 12-3 PM. The exam will be common and cumulative, with room number to be announced. It will cover Chapters 12, 14, 15, 16 including section 16.9. It is expected that no calculators of any kind will be permitted on the final.

- **Incomplete grade:** A grade of "I" will be given for failure to complete all course requirements for reasons beyond the student’s control. The minimum requirement for an incomplete grade is a substantial amount of work completed at the level of C- or better. An "I" grade requires a written agreement between the student and the instructor. It also requires the completion of a form, which can be obtained in Vincent Hall 115. After one year, an "I" turns into an "F" if the course work is not completed. Any arrangement for an incomplete grade MUST be made before the final exam.

- **Dropping:** For the relevant rules and deadlines visit Onestop:

- **Disability Accommodations:** the University of Minnesota is committed to providing all students equal access to learning opportunities. Reasonable accommodations will be provided for the students with disabilities on an individualized and flexible basis. If you receive test accommodations through Disability Services, please speak with me as soon as possible. You must schedule you exams with DS Testing Center via the online scheduling site at least 7 days before each exam. More information is available at https://diversity.umn.edu/disability/home.

- **Academic honesty and integrity**
  - Collaboration: I encourage you to collaborate and form study groups. Nonetheless collaboration stops completely during quizzes, midterms and the final. Concerning the homework assignment, you should all write your solutions by yourselves and you should not write it during collaboration sessions.
  - External resources: I encourage you to use them but only to get your thoughts clear. Copying something straight from external resources is plagiarism.
  - For more information concerning academic honesty and plagiarism visit

- **Liberal Education:** This course fulfills the Mathematical Thinking component of the Liberal Education requirements at the University of Minnesota. An important part of any liberal education is learning to use abstract thinking and symbolic language to solve practical problems. Calculus is one of the pillars of modern mathematical thought, and has diverse applications essential to our complex world. In this course, students will be exposed to theoretical concepts at the heart of calculus and to numerous examples of real-world applications.

2. **Tentative homework schedule:**

Your homework corresponds to the red circles on the column "Text section ... problems" (e.g., 1) Graphs are not required. Other problems are for your benefit; solutions begin at p. A113 at back of text. Similar problems are likely to appear on the midterm exams and final exam. This schedule will be completed later. **Notice that this schedule may change during the semester.**
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Text section and recommended problems</th>
<th>homework due...</th>
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<td>I</td>
<td>1/23</td>
<td>12.1 (page 796): 3, 9, 11, (16), 19, 35</td>
<td>1/28</td>
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<td>12.2 (page 805): 3, 5, 7, 24, 29, 39</td>
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<td>12.3 (page 812): 7, 9, 24, 27, 53</td>
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<td>12.4 (page 821): 11, (19), 22, 27, 29, 33</td>
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<td>II</td>
<td>1/28</td>
<td>12.5 (page 831): 6, (9), 17, 21, 33, 35, 47, (57), 67, (78)</td>
<td>2/4</td>
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<td>III</td>
<td>2/4-6</td>
<td>12.6 (page 839): 5, 13, (21 - 28), 29, 35, 47, 51</td>
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<td>14.1 (page 899): 21, (32), 37, 43, 49, 61-66</td>
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<td>Ch 12 review (page 842): 1ab, 5, 11, 17, 33, 35, 37</td>
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<td>14.2 (page 911): 9, 15, 17, 29, (34), (37), 41.</td>
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**Final exam** is on Thursday, May 9th, from 12 - 3 pm. It covers the overall material of the course, including section 16.9. Room: TBA.

Vincent Hall, 250
E-mail address: apauthie@umn.edu