Math 111: Techniques of Calculus II
Penn State University
Spring 2011
Sections 1 & 2

Instructor: David Little
Office: 403 McAllister
Office Hours: MW 11:00–12:00, TR 3:00–5:00

Phone: 865-3329
Fax: 865-3735
E-mail: dlittle@psu.edu

Textbook:

Topics Covered:
This course serves as a continuation of Math 110. We will cover Chapters 8 and 9 of the text. Intended topics will include functions of several variables, partial derivatives, extreme values of functions of several variables, double integrals, differential equations and applications.

Course Website:
The course website is located at the following address:
http://www.math.psu.edu/dlittle/m111s11
This site contains a copy of the syllabus, course announcements, a daily schedule of class topics, and a list of suggested homework problems. We will not be using ANGEL for this course.

Grades:
The overall grade will be based on the following point distribution and scale.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Homework</td>
<td>125</td>
</tr>
<tr>
<td>In-class Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Midterm Examination</td>
<td>100</td>
</tr>
<tr>
<td>Final Examination</td>
<td>125</td>
</tr>
<tr>
<td>Total</td>
<td>450</td>
</tr>
</tbody>
</table>

Note that your grade will be based exclusively on the homework, quizzes, midterm examination, and final examination. There is no extra-credit work.

Calculators:
The use of calculators or any other electronic device on the quizzes and exams will not be permitted.

Homework:
A list of suggested homework problems is posted on the class website. Students are strongly encouraged to complete all of these problems. The problems presented in the in-class quizzes and the two examinations (midterm and final) will be largely based on the suggested homework problems.
Furthermore, students will be expected to complete many of these suggested homework problems online using WebAssign. Students can login to WebAssign via
https://www.webassign.net/psu/student.html
using your PSU WebAccess userid (e.g., abc123) and password. If you do not have an access code for WebAssign, please see the instructor as soon as possible for how to obtain one.
There will be one online homework assignment for each section of material covered. Assignments will be posted throughout the semester, each assignment due prior to the corresponding in-class quiz. Approximately 150 problems will be assigned during the semester, each problem worth 1 point, with a maximum score of 125 points.
In-class Quizzes:
After we have completed each section of the text, we will have a short (10-15 minutes) in-class quiz to prepare for the midterm exam. Quizzes will be given at the beginning of class and will consist of two or three questions similar to the suggested homework problems and the problems completed in class. The date of each quiz will be announced in class. Arrangements can be made to take a quiz early if you know you will be absent for a school related reason. Absolutely no make-up quizzes will be given without prior approval from the instructor, however your lowest quiz score will be dropped at the end of the semester.

Midterm Exam:
The midterm exam will be given on **Tuesday, March 15, 2011 from 6:30 to 7:45pm in 101 Thomas**. If you are unable to attend the scheduled exam, please inform me the week prior to the exam so that appropriate arrangements can be made.

Final Exam:
A comprehensive final exam will be given during final exam week, **May 2 through May 6**. The exact date of the final exam will be announced during the semester. Do not make plans to leave the university for vacation until after final exam week. A make-up final exam will not be given to accommodate a student’s travel plans.

Academic Integrity:
Penn State students are expected to adhere to the University’s Code of Conduct. For this course, while collaboration on homework is encouraged, each student is responsible for writing up his/her own solutions without help of any kind. Students may not use solutions from any source, including publicly available solution manuals and the internet. For additional information regarding academic integrity, please see the Eberly College of Science Academic Integrity homepage.

Students with Disabilities:
Penn State welcomes students with disabilities into the University’s educational programs. If you have a disability-related need for modifications or reasonable accommodations in this course, contact the Office for Disability Services, ODS located in room 116 Boucke Building at 814-863-1807(V/TTY). For further information regarding ODS, please visit their web site at

http://www.equity.psu.edu/ods

Instructors should be notified as early in the semester as possible regarding the need for modification or reasonable accommodations.

Suggestions to the student:
*Come to class prepared.* Before coming to class, read the material that is to be covered. Make a note of any definitions, concepts, and/or examples that you did not understand. During the course of the lecture, these concepts should become more clear. If not, you will have already formulated the exact question you want answered. Also, having read the section ahead of time should eliminate the need to write down everything I put on the board allowing you to listen more attentively.

*Keep up to date with the class.* Review your notes on a daily basis. One suggestion would be to spend ten minutes before class to remind yourself what we did last time and ten minutes after class to review what we just covered. Also consider re-reading and rewriting your notes on a daily basis. This should reduce the time and anxiety of studying for exams.

*Do your exercises.* Homework problems will be assigned, but it is always recommended to attempt as many problems as possible, assigned or not. A list of suggested problems is available on the course website. Make sure that you at least attempt each homework assignment the day it is assigned. Do not wait until the night before the due date to start an assignment.