Humboldt State University
Mathematics Department
Math 110, Calculus II, Fall Semester, 2013

Instructor: Dr. Pete Goetz
Office Location: BSS 358
Telephone: 707-826-3926
Email: peter.goetz@humboldt.edu
Office Hours: MWF, 1600-1650, BSS 308; T, 1000-1050, BSS 358; R, 1300-1350, BSS 358
Class Days/Time: MTRF 1400-1450
Classroom: HGH 226
Prerequisites: Math 109 or completed Calculus I.

Course Description
Techniques of integration, approximate integration, applications of the definite integral, infinite sequences and series, Taylor series, introduction to elementary ordinary differential equations, parametric curves, polar coordinates, and conic sections. The format of the course is lecture-discussion. A minimum grade of C- is required for this course to count toward the mathematics major.

Course Goals and Student Learning Outcomes
Course learning outcomes:

1) compute, by hand, elementary definite and indefinite integrals using integration techniques;
2) apply the definite integral to solve problems involving: length, area, volume, work;
3) be able to test an infinite series for convergence;
4) be able to apply and solve elementary ordinary differential equations;
5) know the definition of polar coordinates and be able to solve length and area problems in polar coordinates.

Program learning outcomes:

1) the ability to apply the techniques of Calculus to Mathematics, Science, Natural Resources, and Environmental Engineering;
2) written presentations of pure and applied mathematical work that follows normal conventions for logic and syntax.

HSU learning outcomes:

1) effective communication through written and oral modes;
2) competence in a major area of study.

**Required Texts/Readings**

**Textbook:**
*Calculus: Early Transcendentals*, Seventh Edition, James Stewart


**Other:**
There is a wealth of material: sample exams, online texts, links to Calculus videos (the Khan academy link is seems good!), and lots more at [www.calculus.org](http://www.calculus.org).

**Course Website:**
Course announcements and links to course handouts, homework assignments, solutions to exams and other material will be posted at [http://users.humboldt.edu/pgoetz/math110fa13.html](http://users.humboldt.edu/pgoetz/math110fa13.html)

Bookmark the URL.

**Course Expectations**

I expect you to participate in the course by attending all of the lectures, to arrive to class on time and prepared to learn, and to turn in all homework assignments by the due date. I expect you to read the required section in the textbook before each lecture. I expect you to be polite and respectful of your fellow class members and myself. Please refrain from cell phone use in class except for emergencies and have your phone on silent during class. In general, it is expected that students spend at least two hours studying outside of class for each class meeting. Plan on spending at least 8 hours per week studying Calculus. (If you really want to excel in the course, you might need to study 12 or more hours per week.)

You may expect that I: come to class prepared to teach you calculus, give clear lectures, assign homework problems that are relevant to the course, and prepare exam questions that accurately measure your progress in the course. Additionally, I am available outside of class for consultation in office hours and by appointment. I hope to share with you my passion for mathematics!

**Assignments and Grading Policy**

**Homework:**
Homework will be collected in class on Tuesdays and Fridays. A link to the homework assignments with their due dates is on the course website. You need to work hard on the homework. Most people find it difficult to learn mathematics without practicing lots of problems. I will drop your five lowest homework scores. No late homework assignments will be accepted, except in cases of a good excuse or emergency. Homework is worth 20% of your overall course grade.

**Exams:**
We will have three exams this semester. Your lowest exam score will count for 15% of your overall course grade; your other two exam scores will count for 20% of your overall course grade.
Exam 1:  Friday, September 20, 2013
Exam 2:  Friday, October 18, 2013
Exam 3:  Friday, November 15, 2013

**Final Exam:**
The final exam is comprehensive. It is worth 25% of your overall course grade.

It is on Monday, December 16 from 12:40-14:30 in HGH 226.

**Grading Scale:**
All numbers listed below are in percentages. I will round your overall weighted course percentage to the nearest whole percent.

A     92-100
A-    90-91
B+    88-89
B     82-87
B-    80-81
C+    78-79
C     68-77
C-    64-67
D     55-63
F     0-54

**Calculus Tutoring Center**
The Calculus instructors this semester (myself, Dr. Freedman, Dr. Johnson, Dr. Haag, Dr. Owens) will be holding office hours in BSS 308 for students taking Math 109, Math 110 and Math 210. BSS 308 is a classroom with lots of blackboard space for working problems. It is a nice place to work on your homework, meet other students, and get one-on-one help with Calculus. The schedule is as follows.

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<td>Dr. Haag</td>
<td>Dr. Freedman</td>
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<td>10-11</td>
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University Policies

**Students with Disabilities:**
Persons who wish to request disability-related accommodations should contact the Student Disability Resource Center in House 71, 826-4678 (voice) or 826-5392 (TDD). Some accommodations may take up to several weeks to arrange. [Student Disability Resource Center Website](http://www.humboldt.edu/disability/)
If you are a student with a disability, please consider discussing your needs and possible accommodations with me as soon as possible.

**Add/Drop policy:**
Students are responsible for knowing the University policy, procedures, and schedule for dropping or adding classes. [Add/Drop Policy](http://www.humboldt.edu/~reg/regulations/schedadjust.html)

**Emergency evacuation:**
Please review the evacuation plan for the classroom (posted on the orange signs), and review [Emergency Operations Website](http://www.humboldt.edu/emergencymgmtprogram) for information on campus Emergency Procedures. During an emergency, information can be found on campus conditions at: **826-INFO** or at the [Humboldt State Emergency Website](http://www.humboldt.edu/humboldt/emergency).

**Academic integrity:**
Collaboration is allowed and encouraged on homework assignments as long as everyone involved is participating equally.
Students are responsible for knowing the policy regarding academic honesty. [Academic Honesty Policy](http://www.humboldt.edu/studentrights/academic_honesty.php)

**Attendance and disruptive behavior:**
Students are responsible for knowing policy regarding attendance and disruptive behavior. [Attendance and Disruptive Behavior Policy](http://www.humboldt.edu/studentrights/attendance_behavior.php)

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1 [http://www.humboldt.edu/disability/](http://www.humboldt.edu/disability/)
2 [http://www.humboldt.edu/~reg/regulations/schedadjust.html](http://www.humboldt.edu/~reg/regulations/schedadjust.html)
3 [http://www.humboldt.edu/emergencymgmtprogram](http://www.humboldt.edu/emergencymgmtprogram)
4 [http://www.humboldt.edu/humboldt/emergency](http://www.humboldt.edu/humboldt/emergency)
5 [http://www.humboldt.edu/studentrights/academic_honesty.php](http://www.humboldt.edu/studentrights/academic_honesty.php)
6 [http://www.humboldt.edu/studentrights/attendance_behavior.php](http://www.humboldt.edu/studentrights/attendance_behavior.php)