

**Humboldt State University
Mathematics Department
Math 110, Calculus II, Fall Semester, 2014**

Instructor:	Dr. Pete Goetz
Office Location:	BSS 358
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Email:	peter.goetz@humboldt.edu
Office Hours:	Monday: 4-5 PM, BSS 308; Tuesday: 4-5 PM, BSS 308; Wednesday: 2-3 PM, BSS 358; Thursday: 10-11 AM, BSS 358; Friday: 3-4 PM, BSS 358
Class Days/Time:	MTRF from 11:00 - 11:50 AM (CRN 42634) or 2:00 – 2:50 PM (CRN 42633).
Classroom:	Forestry 107
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

ISBN-13: 978-0-538-49790-9

Other:

There is a wealth of material: sample exams, online texts, links to Calculus videos (the Khan academy site is useful!), and lots more at 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/math110fa14.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 working 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 19, 2014

Exam 2: Friday, October 17, 2014

Exam 3: Friday, November 14, 2014

Final Exam:

The final exam is comprehensive. It is worth 25% of your overall course grade.

11 AM course: the final is on December 17, 2014 from 10:20 AM – 12:10 PM in Forestry 107.

2 PM course: the final is on December 15, 2014 from 12:40 PM – 2:30 PM in Forestry 107.

Grading Scale:

All numbers listed below are in percentages. I will round your overall weighted course percentage to the nearest whole percent. Participation in class may work in your favor for borderline cases.

A	92-100
A-	90-92
B+	87-90
B	82-87
B-	80-82
C+	77-80
C	68-77
C-	64-68
D	55-64
F	0-55

Calculus Tutoring Center

The Calculus instructors this semester will hold shared 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 professional help with Calculus. The schedule is as follows.

	Monday	Tuesday	Wednesday	Thursday	Friday
9-10 AM	Dr. Freedman		Dr. Oliver		Dr. Freedman
10-11 AM				Dr. Fodé	Dr. Fodé
11-12 AM	Dr. Johnson				Dr. Johnson
1-2 PM	Dr. Mazzag	Dr. Mazzag			
2-3 PM					
3-4 PM	Dr. Haag		Dr. Haag	Dr. Oliver	
4-5 PM	Dr. Goetz	Dr. Goetz			

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](#)¹.

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](#)²

Emergency evacuation:

Please review the evacuation plan for the classroom (posted on the orange signs), and review [Emergency Operations Website](#)³ 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](#)⁴.

Academic integrity:

Collaboration is allowed and encouraged on homework assignments as long as everyone involved is participating equally.

¹ <http://www.humboldt.edu/disability/>

² <http://www.humboldt.edu/~reg/regulations/schedadjust.html>

³ <http://www.humboldt.edu/emergencymgmtprogram>

⁴ <http://www.humboldt.edu/humboldt/emergency>

Students are responsible for knowing the policy regarding academic honesty. [Academic Honesty Policy](#)⁵.

Attendance and disruptive behavior:

Students are responsible for knowing policy regarding attendance and disruptive behavior. [Attendance and Disruptive Behavior Policy](#)⁶

⁵ http://www.humboldt.edu/studentrights/academic_honesty.php

⁶ http://www.humboldt.edu/studentrights/attendance_behavior.php

