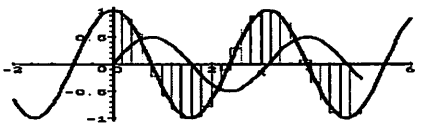
Math 1131
Spring 2009

UCONN



Instructors | Course Outlines: 1131 WebAssign Login
Homework Assignments | Gateway Exams | One-minute Survey Team Work Guide

Text: *Calculus, Early Transcendentals, Volume I* by James Stewart (6th Edition), with *WebAssign* code.
Clickers and Graphing calculators (TI 82, 83, 85 or 86 recommended) will be used

Rebate coupons for the clickers should be bundled with your text. You can buy Volume 1 of the Stewart text at the UConn Coop, online directly from the publilsher (with a discount), and many other places. CAUTION: Make sure you get WebAssign codes bundled with the text as they cost about $25 each semester when purchased separately. Volume 1 of Stewart is used only for Math 1131. You will need to purchase Volume 2 for Math 1132 and the multivariable volume for Math 210. We chose the single volumes as the recommended text since were able to have WebAssign codes (for one semester) bundled with each single semester text. However, you are able to purchase combined versions (a complete singe-variable version for Math 1131-1132 or one large, heavy book for 1131-1132-210) but make sure you get two or three semesters of WebAssign codes bundled with them. When bundled with the text, the first Webassign code is free and additional semesters of WebAssign codes when bundled with the text cost $10 each after the first.

The publisher has set up a special web page, http://ichapterssites.com/ichapters/micro/?cluster_id=1756, for UConn students to purchase a text online with the WebAssign codes bundled. You can get Volume 1 plus WebAssign for about $65. You can also purchase the combined Volumes I and II with Webassign at a discount.

Home work and WebAssign:

You will need a class code from your instructor plus a WebAssign code to register online. A link to WebAssign can be found on the class web page. You can get help using WebAssign from your instructor or at the Q-Center. There will be homework assignments for each section of the text. Each assignment will be made available on WebAssign several days before the section is covered in class. The DUE DATE for each assignment will be set by your instructor and will generally be a couple of days after the material is covered in class. You will get 5 attempts to answer each question. After each attempt you will be told whether your answer is correct or not. Full solutions will be available on WebAssign after the due date. If you are not able to get the correct answer after two or three attempts, we recommend that you seek help from your instructor, the Q-Center, a tutor, or another student.

Grading:

Homework	WebAssign	10%
Quizzes		10%
Clicker response		5%
Projects		5%
Exam 1: (Feb. 24 at 6 PM)	Common evening exam (1-1/2 hours)	20%
Exam 2: (April 7 at 6 PM)	Common evening exam (1-1/2 hours)	20%
Final Exam: (May 7 at 10:30 AM - tentative)	Common (2 hours)	30%
Gateway Exam (Pass/Fail)	Differentiation	0% (see Note)

Note: Failure to pass the Gateway Exam will lower the course grade by one full letter grade.

- The **evening exams** will be held in the rooms listed below from 6-8 pm on Feb 24 and April 7. The dates and times are listed in PeopleSoft, but not the rooms. Common make up exams will be held from 8-10 pm on the same days as the exams. Permission from your instructor is required.
  - Rooms as listed by section
    - Sections 1,3: CLAS 110
    - Sections 2,4,5: ARJ 143
  - The **gateway exam** will be available in the Mathematics MacLab (MSB 203) on WebAssign beginning around March 1. There will be an open period from March 1 through April 4 during which the gateway exam may be repeated (as often as needed) in the Mac Lab. Practice versions of the gateway exam may be taken online from WebAssign. These practice versions are from the same test bank as the actual exams and will be graded online.

Gateway Exam (March 1 - April 4)

- Calculators are NOT allowed.
- Pass/fail exam.
- Exam on WebAssign in MacLab MSB 203 through November 15.

Past Exams

- Exam 1 - Fall 2007
- Exam 2 - Fall 2007
- Final Exam - Fall 2007

The "One-minute Survey"

Please take a minute to write the answer to the following question (no names):

What could we do to improve your learning in this class? Instructor's Name

SEND CLEAR FORM

Math 1131Q **Calculus 1** **Spring 2009**

Instructor: Gabriel Feinberg
e-mail: Feinberg@math.uconn.edu
Office: MSB 119
Office hours: Wednesday, 12:30 – 2:30
Q-center hours, TBA
plus by appointment

Text: *Calculus, Early Transcendentals, Volume 1* by James Stewart (6th Edition)
Technology: A graphing calculator is required, we recommend a TI-82, -83, -85, or -86.

Common Home Page: http://www.math.uconn.edu/ClassHomePages/Math1131/Math1131s09/

Objectives: This course will cover the basics of first year Calculus: limits, continuity, differentiation, antidifferentiation, and definite integrals, with applications to the physical and engineering sciences.

Homework: All homework will be completed in WebAssign (http://www.WebAssign.net). There will be an assignment for each section, and the due dates will be posted. I will give you your WebAssign login on the first day of class. It is your responsibility to set up your account, including obtaining a WebAssign code. Most of you will receive one bundled with your book. I can help with any WebAssign issues, or you can go to the Q-Center.

Quizzes: Short quizzes will be given each Thursday, and will be based on the homework assignments. There will be no make-ups for missed quizzes.

Exams: There will be two mid-semester ***evening*** exams. They will be held 6-8pm on the following dates:

Tuesday, February 24th Tuesday,April 7th
(Mark your calendar now!)

A comprehensive final exam will be administered during the common MATH block of finals week. Attendance at exams is mandatory, and no make-up examinations will be offered.

Gateway Exams: All students are required to pass the differentiation gateway exam between March 1st and April 4th. You may repeat the exam as often as needed. The exam will be taken on a computer in the Maclab, room MSB203. A practice version of the exam will be available on WebAssign, and should be attempted before sitting for the actual test. Anyone failing to pass the test by April 4th will have his or her final grade lowered by one letter grade.

Final Grades will be computed as follows:

Homework – 15%
Quizzes – 10%
Exams 1 & 2 – 20% each
Final Exam – 35%

Tips for the Course:

- Stay up-to-date with the readings.
- Discuss the topics with your classmates.
- Take advantage of my office hours. This time is set aside for me to help you.
- Don't hesitate to ask questions in class.
- If you have issues with any assignments, please communicate with me. I'm here to help you as much as possible, but I will have little sympathy if you approach me the night before due date.
- If you have a diagnosed learning disability that requires special consideration, please see me as soon as possible.

Class guidelines: It is expected that everyone in our class will act in a respectful manner:

-Turn off all cell phones and beepers before the start of class.
-Laptops are not to be used in class (facebook can wait!)
-If you are late to class, please enter quietly and take your seat quickly.
-Cheating of any kind is absolutely unacceptable and will be result in failure of the assignment. Please review the student code:
http://www.dosa.uconn.edu/student_code.html

Math 1131 Outline - Spring 2009

(*Calculus, Early Transcendentals,* by James Stewart 6th Edition)

Week	Date	Section	Topic
1	1/20	1.1	Four Ways to Represent a Function
		1.2	Mathematical Models
		1.3	New Functions From Old Functions
		1.4	Graphing Calculators
2	1/26	1.5	Exponential Functions
		1.6	Inverse Functions & Logarithms
		2.1	Tangent and Velocity Problems
		2.2	Limits
3	2/2	2.3	Limit Laws
		2.4	Definition of a Limit
		2.5	Continuity
4	2/9	2.6	Limits at Infinity
		2.7	Derivatives and Rates of Change
		2.8	Derivative of a Function
5	2/16	3.1	Derivatives of Polynomials & Exponential Functions
		3.2	Product and Quotient Rules
			Review for Exam I
6	2/23		Review for Exam I
	2/24		Exam I, 6-8 PM
		3.3	Derivatives of Trigonometric Functions
7	3/2	3.4	The Chain Rule
		3.5	Implicit Differentiation
		3.6	Derivatives of Logarithmic Functions
	3/9	No Class	Spring Break
8	3/16	3.7	Rates of Change in the Natural and Social Sciences
		3.8	Exponential Growth and Decay
		3.9	Related Rates
9	3/23	3.10	Linear Approximations and Differentials
		4.1	Maximum and Minimum Values
		4.2	Mean Value Theorem
10	3/30	4.3	How Derivatives Affect the Shape of a Graph
		4.4	L'Hospital's Rule
			Review for Exam 2
11	4/6		Review for Exam 2

	4/7		Exam 2, 6-8 PM
		4.5	Summary of Curve Sketching
12	4/14	4.7	Optimization Problems
		4.9	Antiderivatives
		5.1	Areas and Distance
13	4/20	5.2	The Definite Integral
		5.3	Fundamental Theorem
		5.4	Indefinite Integrals and the Net Change Theorem
14	4/27	5.5	The Substitution Rule
			Review for final exam