Math 1131Q — Calculus I — Spring 2011

Text:

- *Calculus I. Early Transcendentals. Single Variable* by William Briggs and Lyle Cochran (1st Edition), with *MyMathLab Plus* code.
- i>clicker units for personal response systems (clickers). $10 Rebate coupon in the bundle for the Iclicker.

You can buy Early Transcendentals, Single Variable by Briggs and Cochran at the UConn Coop, online directly from the publilsher, and many other places. CAUTION: Make sure you get MyMathLab Plus codes bundled with the tex. Single Variable volume is used for both Math 1131 and Math 1132. You will need to purchase the multivariable volume for Math 2110. We chose the single volumes as the recommended text since we were able to have MyMathlab Plus codes (for life of edition) bundled with both semesters text. However, you are able to purchase combined versions (heavy book for 1131-1132-210).

The publisher has set up a special web page, http://vig.pearsoned.com/store/home?url=/uconn/calculus, for UConn students to purchase a text online with the MyMathlab plus codes bundled.

Outline

Instructors

Lecture Notes Graphs-1

Online Resources

Grading:

Homework	MyMathLab Plus	10%
Quizzes	MyMathLab Plus	5%
Discussion class	Participation in discussion class	5%
Clicker response	Lecture class	5%
Exam 1: (Wednesday February 23)	In-class exam	20%
Exam 2: (Wednesday April 6)	In-class exam	20%
Final Exam: (Friday May 6)	Common (2 hours: 1 p.m. - 3 p.m.)	35%
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.

Gateway Exam:

- Calculators are NOT allowed.
- Pass/fail exam.
- Exam on MyMathlab Plus in MacLab (MSB 203) through April 8.

i>clicker Registration:

These are i>clickers which are used only in Math 1131Q course

Clickers will be used in the lectures beginning week 1. You must register your i>clicker by visiting www.iclicker.com and follow the instructions below.

- Click Register Your i>clicker button.
- Enter your First Name and Last Name in the appropriate field.
- Enter your people soft ID. This is the student ID field in the form.
- Enter your i>clicker remote ID. The remote ID is the 8-character alphanumeric code printed below the barcode on the back of your remote.
- Enter the letters or numbers in the captcha security image on the screen. This verification image is a slightly distored series of characters used to prevent spam bots from submitting the form.
- Click the 'Enter' button. An on-screen message confirms that registration was successful.
- **These clickers are different from Einstruction CPS clickers used by other courses in the University**

Homework and MyMathLab Plus:

The homework for Math 1131 is assigned online using the Mylabsplus online home work system. To access your homework online you must go to uconn.mylabsplus.com. Key points to remember:

- If you purchased the text book from Uconn bookstore, you will see an access code for Mylabsplus. You will need this access code when you login.
- To login in to the acccount visit uconn.mylabsplus.com.
- Username is the first part of your uconn email id: example1: john.smith@uconn.edu, the username is john.smith, example2: jane.m.mary@uconn.edu user name will be jane.m.mary. Password is "letmein".
- Change your password by choosing the "myprofile" tab when you login.
- When you click on "MML Homework", you will be asked to enter your access code. If for any reason you do not have an access code you can request an **temporary access code** by clicking on "Temporary Access". The code will be given to instantaneously. This code is vaild for 17 days after which you will need to have brought an access code to continue using the online system.

Homework: There will be homework assignments for each section of the text. Each assignment will be made available on MyMathLab Plus 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 three days after the material is covered in class. **You will get 5 attempts to answer each none multiple choice question and two attempts for each multiple choice question.** After each attempt, you will be told whether your answer is correct or not. If you are not able to get the correct answer after your initial attempts, we recommend that you seek help from your instructor, the Q-Center, a tutor, or another student.

Quizzes: There will be a quiz on each homework assignment. These quizzes will be timed assignments on MyMathLab Plus and will generally be due one day after the homework assignment. There may be additional quizzes in the discussion sections.

Math 1131 Outline - Spring 2011

(*Calculus, Early Transcendentals*, by Briggs and Cochran 1st Edition)

Week	Date	Section	Topic
1	1/19	1.1	Review of Functions
		1.2	Representing Functions
2	1/24	1.3	Inverse, Exponential, and Logarithm Functions
		1.4	Trigonometric Functions and Their Inverses
		2.1	The Idea of Limits
		2.2	Definitions of Limits
3	1/31	2.3	Techniques for Computing Limits
		2.4	Infinite Limits
		2.5	Limits at Infinity
4	2/7	2.6	Continuity
		3.1	Introducing the Derivative
		3.2	Rules of Differentiation
5	2/14	3.3	The Product and Quotient Rules
		3.4	Derivatives of Trigonometric Functions
		3.5	Derivatives as Rates of Change
6	2/21		Review for Exam I
	2/23		Exam I
7	2/28	3.6	The Chain Rule
		3.7	Implicit Differentiation
		3.8	Derivatives of Logarithmic and Exponential Functions
	3/7	No class	Spring Recess
8	3/14	3.9	Derivatives of Inverse Trigonometric Functions
		3.10	Related Rates
		4.1	Maxima and Minima
9	3/21	4.2	What Derivatives Tell Us
		4.3	Graphing Functions
10	3/28	4.4	Optimization Problems
		4.6	Mean Value Theorem
		4.7	L'Hopital's Rule
11	4/4		Review for Exam 2
	4/6		Exam 2
12	4/11	4.8	Antiderivatives
		5.1	Approximating Areas under Curves
		5.2	Definite Integrals

13	4/18	5.3	Fundamental Theorem of Calculus
		5.4	Working with Integrals
		5.5	Substitution Rule
14	4/25	6.1	Velocity and Net Change
		6.2	Regions between Curves