MATH 1132Q Fall 2015

Description: Transcendental functions, formal integration, polar coordinates, infinite sequences and series, parametric equations, with applications to the physical sciences and engineering.

Prerequisites: MATH 1131 or advanced placement credit for calculus (a score of 4 or 5 on the Calculus AB exam or a score of 3 on the Calculus BC exam). Recommended preparation: A grade of C- or better in MATH 1131.

The midterm exams will be held 6-8 PM and 9-11 PM
Thursday October 1 and November 5.

Textbook Information: EITHER *Calculus: Early Transcendentals* (this includes Multivariable Calculus), 7th Edition, by James Stewart with WebAssign Access Code OR *Single Variable Calculus: Early Transcendentals*, 7th Edition, by James Stewart with WebAssign Access Code.

IMPORTANT!
There are three ways to purchase the text and the WebAssign access code:

- Get the text and WebAssign access code bundled together from the publisher's special website for either single variable(1131 and/or 1132) or multivariable (1131, 1132, and 2110) texts.
- Get the text and WebAssign access code bundled together at the UConn Co-op.
- Get the text separately from anywhere, and buy the WebAssign access code when you access your homework through HuskyCT.

We do not recommend using the third option above, because if you buy the WebAssign access code separately then you will have to buy it for 95 dollars for one semester of calculus or 110 dollars for two or three semesters of calculus; by comparison, the cost of the book and WebAssign access code bundled together (from the publisher's website or from the UConn Co-op) is less than 95 dollars. The option to buy the text and WebAssign access code bundled together lets you use that access code for the life of the edition of the textbook.
Graphing calculators: TI 82, 83, 84, 84 plus, 85 or 86 are sufficient but more powerful models are also OK. All calculators are permitted during the common midterm exams (but not during the discussion class quizzes).

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i>clicker Registration:

Clickers will be used in all lectures except section 140. You must register your i>clicker in your HuskyCT page for the lecture you attend (100 or 120), even if you registered an i>clicker in Math 1131 last semester.**IMPORTANT ONLNE CLICKER REGISTRATION INFORMATION:**

- Go to HuskyCT page for your lecture (100 or 120).
- Click on "i>clicker Registration" in the left column.

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- Enter the Remote ID for your i>clicker where it is requested in Step 1.
- Double check that the Remote ID you entered is correct.
- Clicker the Submit button in Step 2.

Warning: The web version of i>clicker (Apps for iPhone, Android, etc.) will not work in the classrooms.

Homework: To access the homework you will have to go through Husky CT single sign-on. In your account you will find a link to do your homework using WebAssign. 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 two or three days after the material is covered in class.**You will get five attempts for each question that is not multiple choice and fewer than five attempts for each multiple choice question; the exact number of attempts will depend on the number of choices.** 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.**Warning:** When accessing your online homework, **use Firefox or Chrome as your browser**; there are problems that can occur if you use Internet Explorer or Safari.

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

WebAssign Registration: The homework for Math 1132 is assigned online using the WebAssign online homework system. To access your homework online you must go to Husky CT.

Homework and WebAssign:

Grading:

The **common midterm exams** will be held on Thursdays (10/1/2015 and 11/5/2015) 6-8 PM or 9-11 PM in rooms that will be listed here later. The dates and times are listed in PeopleSoft, but not the rooms.

Homework (online)	WebAssign	5%
Quizzes (online)	WebAssign	5%
Quizzes and Worksheets (in person)	Discussion	10%
Clicker responses	Lecture class	5%

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Exam 1: (Thursday October 1, 6-8 PM or 9-11 PM)	Common evening exam	20%
Exam 2: (Thursday November 5, 6-8 PM or 9-11 PM)	Common evening exam	20%
Final Exam: (Saturday December 19)	Common (2 hours)	35%

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Week	Date	Section	Topic	Learning Activities
1	8/31	6.1	Area between curves	Video, flash cards, Worksheet 6.1, Youtube tutorial
		6.2	Volumes	Video, flash cards, Youtube tutorials 1 & 2, Worksheet 6.2
2	9/8	6.4	Work	Video, flash cards, (area, volume, work), Youtube tutorials 1 &2, Worksheet 6.4
		7.1	Integration by Parts	Video, flash cards, Youtube tutorials 1 & 2, Worksheet 7.1
3	9/14	7.4	Partial Fractions	Video, flash cards, Youtube tutorials 1 , 2, 3 & 4, Worksheet 7.4
		7.7	Approximate Integration	Video, flash cards, Youtube tutorial, Worksheet 7.7
4	9/21	7.8	Improper Integrals	Video, flash cards, Worksheet 7.8
		8.1	Arc Length	Worksheet 8.1
5	9/28	Review	Sample Midterm 1	
	10/1		Midterm Exam 1	

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Week	Date	Section	Topic	Learning Activities
6	10/5	8.3	Applications to Physics and Engineering	Video, flash cards, Worksheet 8.3
		11.1	Sequences	Worksheet 11.1
7	10/12	11.2	Series	Worksheet 11.2 & 11.3
		11.3	Integral Test	
8	10/19	11.4, 11.5	Comparison Test, Alternating Series	Worksheet 11.4 & 11.5
		11.6	Absolute Convergence and the Ratio Test	Worksheet 11.6
9	10/26	11.8	Power Series	Worksheet 11.8
		11.9	Representation of Functions as Power Series	Worksheet 11.9
10	11/2	Review	Sample Midterm 2	

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Week	Date	Section	Topic	Learning Activities
	11/5		Midterm 2 Exam	
11	11/9	11.10	Taylor and Maclaurin Series	Worksheet 11.10
		11.11	Applications of Taylor Polynomials	Worksheet 11.11
12	11/16	10.1, 10.2	Curves Defined by Parametric Equations, Calculus with Parametric Curves	Video, flash cards, Worksheet for 10.1 & 10.2
		10.3	Polar Coordinates	Worksheet for 10.3
	11/22		Thanksgiving break	
13	11/30	10.4	Area in Polar Coordinates	WORKSHEET for 10.4
		9.1, 9.2	Modeling with Differential Equations,	

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Week	Date	Section	Topic	Learning Activities
			Direction Fields	
14	12/7	9.3	Separable Equations	
	12/19	Review	Final Exam	