UConn's MATH 1132Q
Fall 2017 Syllabus

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.

Textbook Information: EITHER *Calculus: Early Transcendentals* (this includes Multivariable Calculus), 8th Edition, by James Stewart with WebAssign Access Code OR *Single Variable Calculus: Early Transcendentals*, 8th 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 at a discount from the publisher** 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 integration midterm or discussion class quizzes).

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i>clicker Registration:

Clickers will be used lecture 140, but NOT in lectures 100 or 120. If you are enrolled in lecture 140 you must register your i>clicker in your HuskyCT page for the lecture you attend, even if you registered an i>clicker in Math 1131 last semester.**IMPORTANT ONLNE CLICKER REGISTRATION INFORMATION:**

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

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Homework and WebAssign:

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.

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.

Exams, Quizzes, and Worksheets:

Exams: The midterm exams in this course will be multiple choice, and as such there will be no partial credit on midterm exams. The final exam will be part multiple choice, part short answer. Look here for more detailed exam information in the future.

Quizzes: There will be weekly quizzes in discussion section that will cover material from the week before. These will not be multiple choice and therefor you will be able to get partial credit on Quiz questions.

Worksheets: There will be weekly worksheets that you must turn in to your TA. Worksheets can be found in the Learning Activities section of this website.

Grading:

Quizzes	Weekly	Discussion	15%
Homework and Clicker	WebAssign	Online and Lecture	15%
Worksheets	Weekly	Discussion	5%
Exam 1:	Week 4	Wed or Thur discussion class	13%
Exam 2:	Week 8	Wed or Thur discussion class	13%

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Exam 3:	Week 12	Wed or Thur discussion class	13%
Final Exam:		Common exam Wed 12/13 3:30-5:30 PM	26%

Outline for Math 1132 – Fall 2017

Week	Date	Section	Topic
1	8/28		Administrative Information
		7.2	Trigonometric Integrals
		7.3	Trigonometric Substitution
2	9/4	7.1	Integration by Parts
		7.4	Integration by Partial Fractions
3	9/11	7.7	Approximate Integration
		7.8	Improper Integrals
4	9/18		Practice Exam (Review)
			Exam 1 (in Wed or Thur discussion class)
		6.4	Work
5	9/25	11.1	Sequences
		11.2	Series
6	10/2	11.3	The Integral Test and Estimates of Sums
		11.4	The Comparison Tests
7	10/9	11.5	Alternating Series
		11.6	Absolute Convergence and the Ratio Test
8	10/16		Practice Exam (Review)

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			Exam 2 (in Wed or Thur discussion class)
		11.8	Power Series
9	10/23	11.9	Representations of Functions as Power Series
		11.10	Taylor and Maclaurin Series
10	10/30	11.11	Applications of Taylor Polynomials
		9.1	Modeling with Differential Equations
11	11/6	9.3	Separable Equations
		8.1	Arc Length
12	11/13		Practice Exam (Review)
			Exam 3 (in Wed or Thur discussion class)
		10.1	Curves Defined by Parametric Equations
13	11/20		Thanksgiving Break
14	11/27	10.2	Calculus with Parametric Curves
		10.3	Polar Coordinates
15	12/4	10.4	Areas and Lengths in Polar Coordinates
			Review
16	12/11		FINAL EXAM Wednesday 12/13 3:30-5:30PM

Section	Topic	Worksheet/Review	Video/Flash Cards
7.2	Trigonometric Integrals	Worksheet 7.2.pdf	7.2a 7.2b
7.3	Trigonometric Substitution	Worksheet 7.3.pdf	7.3
7.1	Integration by Parts	Worksheet 7.1.pdf	7.1

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7.4	Integration by Partial Fractions	Worksheet 7.4.pdf	7.4
7.7	Approximate Integration	Worksheet 7.7.pdf	7.7a,7.7b
7.8	Improper Integrals	Worksheet 7.8.pdf	7.8 Flash Cards
6.4	Work	Worksheet 6.4.pdf	6.4
11.1	Sequences	Worksheet 11.1.pdf	11.1
11.2	Series	Worksheet 11.2.pdf	11.2
11.3	The Integral Test and Estimates of Sums	Worksheet 11.3.pdf	11.3
11.4	The Comparison Tests	Worksheet 11.4.pdf	11.4
11.5	Alternating Series	Worksheet 11.5.pdf	11.5
11.6	Absolute Convergence and the Ratio Test	Worksheet 11.6.pdf	11.6Flash Cards
11.8	Power Series	Worksheet 11.8.pdf	11.8
11.9	Representations of Functions as Power Series	Worksheet 11.9.pdf	11.9
11.10	Taylor and Maclaurin Series	Worksheet 11.10.pdf	11.10
11.11	Applications of Taylor Polynomials	Worksheet 11.11.pdf	11.11
9.1	Modeling with Differential Equations	Worksheet 9.1.pdf	9.1
9.3	Separable Equations	Worksheet 9.3.pdf	9.3
9.4	Models for Population Growth	Worksheet 9.4.pdf	
10.1	Curves Defined by Parametric Equations	Worksheet 10.1.pdf	10.1
10.2	Calculus with Parametric Curves	Worksheet 10.2.pdf	10.2
10.3	Polar Coordinates	Worksheet 10.3.pdf	10.3
10.4	Areas and Lengths in Polar Coordinates	Worksheet 10.4.pdf	10.4

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8.1	Arc Length	Worksheet 8.1.pdf	8.1