Math 1132Q – Calculus II (Spring 2024)

Home

Outline

Instructors (Storrs): Keith Conrad, Ben Lantz, Dave McArdle, Myron Minn-Thu-Aye

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: You must have access to one of the following:

1. *Single Variable Calculus: Early Transcendentals*, 8th Edition, by James Stewart with WebAssign Access Code.
2. *Calculus: Early Transcendentals*, 8th Edition, by James Stewart with WebAssign Access Code (includes MATH 2110, Multivariable Calculus)
3. *Calculus: Early Transcendentals+ Diff Eq*, 8th Edition, by James Stewart with WebAssign Access Code (includes MATH 2110 and MATH 2410, Multivariable Calculus and Differential Equations)

Cengage/WebAssign access and the Husky Book Bundle: *This is a continuation course so you should still have access to all required course materials when you log into the Cengage website through the link your instructor has provided for their course. If you are new to Calculus at UConn and do not have access from the previous term, but are enrolled in the Husky Book Bundle, you should receive this access at no additional charge. To receive your access, please go to the UConn Bookstore with your student ID and follow signs for the Husky Book Bundle. Let the staff know you need a manager to get you an access card for your Calculus course. For more information about the Husky Book Bundle click here.*

IMPORTANT!
If you already purchased a textbook and HW access for MATH 1131Q at UConn you do not need to repurchase anything for MATH 1132Q and your HW access will still be valid.

Calculators & Resources: No calculators, websites, books/notes are allowed on quizzes or exams. Use of prohibited materials will result in a zero on the assessment. Some homework will require calculators.

Grading:

Assignment Type	Due Date	Percentage
Lecture Activities	Tuesday & Thursday (in lecture)	5%
Discussion Quizzes	Wednesday (in discussion)	15%
WebAssign HW	Due Tuesday at 11:59PM (online)	10%
Exam 1:	Wednesday 2/7 (in discussion)	15%
Exam 2:	Wednesday 3/6 (in discussion)	15%
Exam 3:	Wednesday 4/10 (in discussion)	15%
Final Exam:	Date/Time TBA	25%

Exam Replacement Policy: Your score on the final exam will replace your one lowest exam score if you score higher on the final exam. Note that your final exam grade is always counted when computing your course grade and cannot be replaced.

Participation: You are required to be an active participant in the course *every week.* In particular, you must be present and active in your discussion section, which will present more opportunities to ask questions and work with classmates.

WebAssign HW:

Description: There will be online homework assignments for each section of the text. *You will get five attempts for each question that is not multiple choice and one less attempt than the number of choices 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 firs two or three attempts, we recommend that you seek help from your instructor, TA, problem sessions, the Q-Center, or a classmate.
Homework Access: To access the homework you will have to go through Husky CT. On your course HuskyCT page you will find a link to access WebAssign. There is no class key to enter.
Due Dates/ Extensions: Homework is due on Tuesday evening at 11:59PM for all sections covered the previous week during lecture. If you miss the due date on WebAssign homework then you are allowed to request a 24-hour extension. You can only request an extension once the due date has passed, and must request within 48 hours (Thursday at 11:59pm) of the original due date but you can request up to two extensions per assignment, and the latest final due date you can obtain is 72 hours (Friday at 11:59pm) after the original due date. These extensions will be applied automatically. See the instructions for requesting an automatic extension.
Technology 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. Here .pdf is a document with tips on using WebAssign.

Exams

Exam Description: There will be three unit exams and a Final Exam in this course. The Final Exam for the course will be cumulative. The dates and times for all exams are shown below.

- **Exam 1:** Week 4 (Wednesday 2/7)
- **Exam 2:** Week 8 (Wednesday 3/6)
- **Exam 3:** Week 12 (Wednesday 4/10)
- **Final Exam:** TBA

Exam Format: Unit exams are administered in-person during your discussion section. Exams are mixed format with multiple choice, true/false, and free-response questions. Partial credit is awarded on free-response questions.

Note: No external resources are permitted during exams. Select formulas will be provided. You are prohibited from using additional resources such as a calculator, notes, textbook, etc.

Lecture Activities:

On Tuesday and Thursday during lecture there will be a graded lecture activity related to the content being covered. Be sure to bring a phone, tablet, or laptop to lecture to complete the activity. You must be in attendance during lecture to receive credit. Note that lecture 090 will have an alternative assignment for lecture activities (Dave will be in touch with more details).

Discussion Quizzes:

On Wednesday during your in-person discussion, there will be a quiz focusing on the material covered the previous week in lecture. Quizzes are mixed format with multiple choice, true/false, and free-response questions.

Content Delivery & Resources:

Lecture: For Sections 010, 030, 050, and 070, lectures for MATH 1132Q are held on Tuesdays and Thursdays at the set time that appears on your schedule. For Section 090, lecture is asynchronous via video recordings (remember discussion is in person for all sections). Refer to your lecture HuskyCT for more information on lectures.

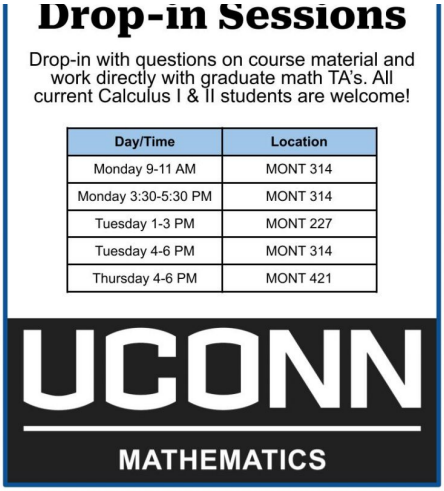
Discussion Sections: As part of MATH 1132Q, you have been placed in a discussion section with a graduate student TA. Discussion sections will meet once per week on Wednesdays in-person at a set time that will appear on your schedule. Below are details about what to expect:

Your TA will begin discussion with a 10-minute quiz on the previous week's lecture material. Then there will be time to ask questions about new material from Tuesday's lecture.

ADDITIONAL RESOURCES: There are multiple additional resources to provide opportunities to ask questions, discuss the course, and work with others. many resources available throughout this course to help you understand the calculus concepts.

- **CALCULUS I/II Drop-in Sessions:** There will TA-hosted drop in sessions open to all students in Calculus I and Calculus II. Use this resource to ask questions about HW or other course related questions. The schedule for the drop-in sessions is below and will begin in Week 2:





- **Q CENTER:** There are tutors available at the Q Center Sunday through Friday. Find hours and tutor info at https://qcenter.uconn.edu/ .
- **OFFICE HOURS:** Your instructor and TA will offer weekly office hours.

Additional Information:

Make-up Policy: If you have to miss a graded assignment (exam, activity, or quiz) at its designated time, you must notify the TA (and the lecturer in the case of exams) *in advance*. Arrangements for a make-up will be considered on a case-by-case basis and will be administered for approved reasons only at the discretion of the instructor.

Academic Integrity: It is in your best interest to maintain your academic integrity. Any form of academic dishonesty undermines the goals of our course and devalues the learning process. Academic dishonesty is a serious offense at UConn and can result in a zero grade on an assessment and/or failure in the course.

Accommodations for Students with Disabilities: The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Change to Syllabus: The information contained in the course syllabus, may be subject to change with reasonable advance notice, as deemed appropriate by the instructor.

Online Learning: UConn has several resources available to help you navigate online learning. You can check out the following links: https://achieve.uconn.edu/online-course/ https://onlinestudent.uconn.edu/keeplearning/

Week	Date	Section	Topic
1	1/15	7.1	Integration by Parts
		7.2	Trig Integrals
2	1/22	7.3	Trigonometric Substitution
		7.4	Integration by Partial Fractions
3	1/29	7.7	Numerical Integration
		7.8	Improper Integrals
4	2/5	**EXAM 1**	*In discussion Wednesday 2/7
		6.4	Work
5	2/12	11.1	Sequences
		11.2	Series
6	2/19	11.3	The Integral Test and Estimates of Sums
		11.4	The Comparison Tests
7	2/26	11.5	Alternating Series
		11.6	Absolute Convergence and Ratio Test
8	3/4	**EXAM 2**	*In discussion Wednesday 3/6
		11.8	Power Series
	3/11		SPRING BREAK
9	3/18	11.9	Representations of Functions as Power Series
		11.10	Taylor and Maclaurin Series
10	3/25	11.11	Applications of Taylor Polynomials
			Sequences and Series Review
11	4/1	9.1	Modeling with Differential Equations
		9.3	Separable Equations
12	4/8	**EXAM 3**	*In discussion Wednesday 4/10
		8.1	Arc Length
13	4/15	10.1	Curves Defined by Parametric Equations
		10.2	Calculus with Parametric Curves
14	4/22	10.3	Polar Coordinates
		10.4	Calculus with Polar Coordinates
			Final Exam (TBA)