Math 1132Q – Calculus II (Fall 2020)

Home

Outline

Homework

Learning Activities

Instructors

Instructors (Storrs): Reed Solomon and David McArdle (coordinator)

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 can choose from (3) options at the UConn bookstore (based on how many math courses you intend to take at UConn).

1. **Option 1** (Choose if you are only taking 1132). *Single Variable Calculus: Early Transcendentals*, 8th Edition, by James Stewart with WebAssign Access Code.
2. **Option 2** (Choose if you will also take 2110). *Calculus: Early Transcendentals* (this includes Multivariable Calculus), 8th Edition, by James Stewart with WebAssign Access Code
3. **Option 3** (Choose if you will also take 2110 and 2410) *Calculus: Early Transcendentals+ Diff Eq*, 8th Edition, by James Stewart with WebAssign Access Code

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

IMPORTANT!
We recommend that you get the text and WebAssign access code bundled together at the UConn Co-op. 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. So if you have already bought a WebAssign access code for this book for a previous semester, you can use it again. If you have multiple other courses using Cengage textbooks, then you should consider a “Cengage Unlimited” subscription through the Cengage website. This will give you access to the Ebook and HW.

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. If you miss the due date on homework you can get an extension for up to two days after the due date, but you will only be able to receive 50% credit for the homework. **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.

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 Thursday 3’s:

Exams: There will be two midterm exams and a Final Exam in this course. The exams will be proctored virtually via WebEx (more information will be provided later in the semester). You must have access to a webcam for exam proctoring purposes. The Final Exam for the course will be cumulative. The dates and times for all exams are the following.

Exam 1	Week 6 (Date/time TBA)	*WebEx Proctoring*
Exam 2	Week 11 (Date/time TBA)	*WebEx Proctoring*
Final Exam	TBA	*WebEx Proctoring*

Note: No external resources are permitted during exams. You are prohibited from using a calculator, websites, notes, textbook, etc.

Lecture Quizzes: For each section covered throughout the semester, there will be an associated "lecture quiz". These quizzes are accessed through HuskyCT and submitted in HuskyCT. They are not timed or Proctored. Quizzes are due on Sunday evenings at 11:59PM for the week that the section was covered. You must submit your work as a single PDF file.

Thursday 3's: Part of understanding Calculus is being able to explain your reasoning and explain your process. Every week you will be assigned a problem to complete related to the *previous week's* content. Your job will be to solve the problem and record a *3-minute* video explaining the solution. This video will be posted to Flipgrid and is due on Thursdays at 11:59PM.

Worksheets: There are weekly worksheets that we recommend that you complete as you engage with the lecture material. Worksheets are not required to be turned in. All worksheets can be found in the Learning Activities section of this website.

Grading:

Assignment Type	How to Access	Due Date	Percentage
Participation	Piazza & Office hours	—	5%
"Thursday 3's"	Flipgrid (through HuskyCT)	Due Thursdays at 11:59PM	10%
Lecture Quizzes	Available on HuskyCT	Due Sundays at 11:59PM	10%
Homework	WebAssign	Due Thursdays at 11:59PM	10%
Exam 1:	Week 6	Date/ Time TBA	20%
Exam 2:	Week 11	Date/ Time TBA	20%
Final Exam:		Date/ Time TBA	25%

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

Quiz/ HW Drop Policy: Your single lowest lecture quiz score and HW score will be dropped when final grades are computed.

Participation: You are required to be an active participant in the course *every week* and will be awarded points based on this. To earn full participation credit, you must earn 2 points per week (you cannot earn more than 2 in a given week). Points are earned by posting to the Piazza discussion board (1 pt per post) or attended office hours (1 pt per visit).

NOTE: The honors sections will have slightly different grading schemes which are detailed in the respective syllabi.

Content Delivery & Resources:

For each section of the course (see course outline tab) there will be several resources offered to you on HuskyCT:

- Lecture Note "Shells": A template for the notes that will be covered in lecture will be provided. It is a good practice to print/download the template before watching the lecture video.
- Completed Lecture Notes: A PDF of the completed lecture notes will be provided for each section.
- Lecture Videos: Prerecorded lecture videos will be provided for each section. These videos were recorded by the coordinator, David McArdle.

Once you engage with the material provided on HuskyCT, there are several additional resources available to you

- Live Worksessions: Reed Solomon and David McArdle will hold live worksessions in the evenings on Monday-Thursday. During these sessions, we will work through problems related to the lecture content. We will not be lecturing/teaching the material (that's what the lecture videos are for). You can access the sessions through HuskyCT. The schedule is as follows:
    - Monday 5-6PM (w/ Dave)
    - Tuesday 3:30-4:30 (w/ Reed)
    - Wednesday 5-6PM (w/ Reed)
    - Thursday 3:30-4:30 (w/ Dave)
- TA Office Hours: You are all placed in a discussion section led my a TA. Your TA will hold 3 office hours per week that you can attend for extra help. You can access the office hours through your discussion section's HuskyCT page.
- Q-Center Tutoring: There are many skilled tutors ready and willing to help you at UConn's Q-center (provided fully virtuall). Follow this link for more information: https://qcenter.uconn.edu/

Additional Information:

Make-up Policy: If there is an approved reason for you to not take an exam at its designated times, you must notify the instructor in advance to make arrangements. Students who are unable to attend an exam due to an emergency situation should notify their instructor via e-mail as soon as possible and within 36 hours. Arrangements for a make-up test will be considered on a case by case basis. Make-up exams will be administered only at the discretion of the instructor. If a student is allowed to make up a missed exam, (s)he must take it at a mutually arranged time.

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	8/31	5.5	Intro/ Integration by Substitution
		7.1	Integration by Parts
2	9/7	7.2	Trig Integrals
		7.3	Trigonometric Substitution
3	9/14	7.4	Integration by Partial Fractions
		7.7	Numerical Integration
4	9/21	7.8	Improper Integrals
		6.4	Work
5	9/28	8.1	Arc Length
		11.1	Sequences
6	10/5	EXAM 1	Exam 1
		11.2	Series
7	10/12	11.3	The Integral Test and Estimates of Sums
		11.4	The Comparison Tests
8	10/19	11.5	Alternating Series
		11.6	Absolute Convergence and Ratio Test
9	10/26	11.8	Power Series
		11.9	Representations of Functions as Power Series
10	11/2	11.10	Taylor and Maclaurin Series
		11.11	Applications of Taylor Polynomials
11	11/9	EXAM 2	Exam 2
		9.1	Modeling with Differential Equations
12	11/16	9.3	Separable Equations
		10.1	Curves Defined by Parametric Equations
13	11/23	OFF	Thanksgiving!
		OFF	
14	11/30	10.2	Calculus with Parametric Curves
		10.3 & 10.4	Polar Coordinates
15	12/7		Last Day of Classes
16		TBA	FINAL EXAM