

# MATH 1132Q

## Calculus II

University of Connecticut

Summer 2026: Online

### I **General Information**

#### **Contact Information**

**Instructor:** Dr. David T. McArdle (feel free to call me Dave)

**Email:** dmcardle@uconn.edu

**Office Hours:** Held online (Schedule posted on HuskyCT)

#### **Course Description**

MATH 1132Q explores transcendental functions, formal integration, polar coordinates, infinite sequences and series, and parametric equations. An emphasis is given to applications from the physical sciences and engineering.

#### **Course Materials**

\*\*There are no required course materials. Lecture notes and videos are provided by the instructor.

**Textbook** The optional course textbook is Calculus: Early Transcendentals, 8th Edition, by James Stewart OR Single Variable Calculus: Early Transcendentals, 8th Edition, by James Stewart.

**Calculators:** Calculators are not allowed on course assessments.

**Technology:** To participate in this course, you must have reliable internet access (to access all course material) and you must have access to a webcam (for web-based proctoring).

## Communication with Students

Announcements and important course information may be sent out via official University (UConn) email or through HuskyCT. It is the student's responsibility to check for messages and announcements regularly. If you are taking this course over the summer from a different university, please be sure to check your UConn email regularly or check the announcements on HuskyCT daily.

## Inclusion Statement

I aim to create an inclusive learning environment in which all students are given the appropriate tools to succeed and grow intellectually. To support students with diverse ways of thinking and learning, I have incorporated pedagogical innovations that support various learning styles, means of engagement, and forms of assessment. Together we will form a cohesive community of learners where we will each showcase our strengths, support one another, and discover the beauty and utility of mathematics.

## II Course Topics & Schedule

The course is divided into 3 Units. Below is the list of topics for each unit as well as the schedule for the course:

### Unit 1: Integration Techniques

**Dates:** June 1st → June 10th

**Sections covered:**

- 7.0: Integration by U-Substitution & Review
- 7.1: Integration by Parts
- 7.2: Trigonometric Integrals
- 7.3: Trigonometric Substitution
- 7.4: Integration by Partial Fraction Decomposition
- 7.7: Approximate Integration
- 7.8: Improper Integrals
- 6.4: Work
- 8.1: Arc Length

**Quiz and HW DUE:** Weekly on Sundays at 11:59PM

**Exam 1:** Wednesday, June 10th

## Unit 2: Sequences and Series

**Dates:** June 11th → June 24th

**Sections covered:**

- 11.1: Sequences
- 11.2: Series
- 11.3: The Integral Test
- 11.4: The Comparison Tests
- 11.5: The Alternating Series Test
- 11.6: The Ratio Test
- 11.8: Power Series
- 11.9: Representations of Functions as Power Series
- 11.10: Taylor Series and Maclaurin Series
- 11.11: Applications of Taylor Polynomials

**Quiz and HW DUE:** Weekly on Sundays at 11:59PM

**Exam 2:** Wednesday, June 24th

## Unit 3: DE's, Polar, and Parametric

**Dates:** June 25th → July 2nd

**Sections covered:**

- 9.1: Modeling with Differential Equations
- 9.3: Separable Equations
- 10.1: Curves Defined by Parametric Equations
- 10.2: Calculus with Parametric Curves
- 10.3: Polar Coordinates
- 10.4: Area and Length in Polar

**Quiz and HW DUE:** Weekly on Sundays at 11:59PM

**Final Exam:** Thursday, July 2nd. \*\*CUMULATIVE

**NOTE:** I have provided a suggested daily schedule (below) and I highly recommend that you stick to this schedule to avoid falling behind. Due dates for quizzes, HW, and exams are fixed.

## MATH 1132 SS1 at UConn

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	June 1	2	3	4	5	6
	Ch 7.0, Ch 7.1	Ch 7.2	Ch 7.3	Ch 7.4, Ch 7.7	Ch 7.8	
7	8	9	10	11	12	13
<b>DUE:</b> HW & Quizzes 7.1-7.7	Ch 6.4, Ch 8.1	Unit 1 REVIEW	<b>Exam 1</b>	Ch 11.1, 11.2	Ch 11.3	
14	15	16	17	18	19	20
<b>DUE:</b> HW & Quizzes 7.8, 6.4, 8.1	Ch 11.4	Ch 11.5	Ch 11.6	Ch 11.8	Ch 11.9	
21	22	23	24	25	26	27
<b>DUE:</b> HW & Quizzes 11.1-11.8	Ch 11.10, 11.11	Unit 2 REVIEW	<b>Exam 2</b>	Ch 9.1, Ch 9.3	Ch 10.1, 10.2	
28	29	30	July 1	2	3	
<b>DUE:</b> HW & Quizzes 11.9-11.11, 9.1, 9.3	Ch 10.3	Ch 10.4	Final Exam REVIEW	<b>Final Exam</b>	<b>DUE:</b> HW & Quizzes 10.1-10.4	

Color Key:

UNIT 1

UNIT 2

UNIT 3

### III Grading

Final grades in the course will be computed via one of the following grading breakdowns (whichever yields a higher grade):

OPTION 1	Weight	OPTION 2	Weight
Final Exam	20%	Final Exam	25%
Exam 1	20%	Exam 1	25%
Exam 2	20%	Exam 2	25%
Quizzes	15%	Quizzes	25%
Homework	15%		
Participation	10%		

<b>A</b>	[93, 100]	<b>B</b>	[83, 87]	<b>C</b>	[73, 77]	<b>D</b>	[63, 67]
<b>A-</b>	[90, 93]	<b>B-</b>	[80, 83]	<b>C-</b>	[70, 73]	<b>D-</b>	[60, 63]
<b>B+</b>	[87, 90]	<b>C+</b>	[77, 80]	<b>D+</b>	[67, 70]	<b>F</b>	< 60

I will make every effort to provide feedback and grades within 48 hours. To keep track of your performance in the course, refer to My Grades in HuskyCT.

*Grading Disputes:* Any grading disputes must be addressed within one week after an exam or homework has been returned.

### Exams

There are 2 unit exams and a *cumulative* final exam. The tentative dates of these assessments can be seen below:

- EXAM 1: Wednesday, June 10. Covers Unit 1.
- EXAM 2: Wednesday, June 24. Covers Unit 2.
- Final Exam: Thursday, July 2. Cumulative. Covers Units 1,2, and 3.

Exams consist of multiple choice, fill-in and true/false style questions and are administered using lockdown browser/respondus on HuskyCT. This is a proctoring application that must be downloaded ahead of time and requires use of a webcam and microphone (a requirement for the course). Then your work must be submitted after the exam in order to earn credit (as well as partial credit). Exams will be available to take at your convenience during a 12-hour window on the specified exam day (From 10a-10p EST).

Any academic integrity violation related to an exam will result in a grade of 0 on that exam and a referral to the disciplinary board.

## Quizzes

After watching a lecture video, you will be required to complete a “lecture quiz”. The lecture quiz will involve answering questions related to the lecture content. These assignments are due Sunday evening of the week that the lecture video was scheduled, unless otherwise indicated on the schedule. It is important to keep up with the course content! Quizzes are MC/ TF quizzes that are auto-graded on HuskyCT and proctored using lockdown browser. You are also required to submit your work for the quiz in order to earn credit (and partial credit). You are allowed **2 Quiz Retakes** throughout the session.

## Homework

\*Only for Option 1. For each section of the course, there will be a set of assigned homework problems (posted on HuskyCT). These problems should be completed and submitted on HuskyCT by Sunday night at 11:59pm the week the content was scheduled (unless otherwise specified in the schedule).

Homework assignments are all TF and MC style questions pulled from a large bank of problems that are also used for quizzes and exams. You can retry the HW assignment as many times as you'd like and the highest score will be recorded. We encourage you not to utilize calculators and other resources to better simulate quizzes and exams.

## Participation

\*Only for Option 1. Students must interact with their peers and instructors in this course in order to earn points towards their participation grade.

- Students must earn 15 participation points throughout the course of the semester in order to receive full credit for participation. Students can earn at most 1 point per day.
- Ways to Earn Points Students can earn points by actively participating (asking and answering questions) in online drop-in sessions (see the “Calculus Corner” below). Each active participant will earn 1 point per day.

You can also earn participation points by asking and answering questions on our discussion board hosted on HuskyCT. There will be a daily discussion post from one of our instructors related to the course content for that day. Replying to / answering that post will earn you a daily point.

## **IV** **How to Approach the Course**

All of the course materials are available on or linked from HuskyCT.

This course moves at a very fast pace! You are expected to cover three weeks of material every week of the course. You need to be very careful about keeping up with the material and keep me informed about your progress! Here are some tips on how to succeed.

### **Course Schedule**

I have provided a layout of the course schedule on HuskyCT (main page). This schedule shows which sections are to be covered each day, when optional live sessions are scheduled, when due dates are, and when exams are. Course sections can be covered on different days (since you can access lecture content at anytime), so if you need to adjust, that is fine. However, keep in mind that due dates and exam dates are fixed for everyone.

### **Lecture Notes/ Videos**

Each section of the textbook has a set of lecture notes and a video that go with it. I include “shell” notes as well as “completed” notes. You can imagine that the shell notes are essentially a blank framework of what will be covered in the lecture and the completed notes are the final project. To go along with the lecture notes, there is a lecture video that I have prerecorded that goes through all of the concepts from the notes. The lecture video is me completing the notes with you! These videos go through examples of how to solve various problems and they cover the main concepts. You can access notes and videos at your own convenience.

### **The Calculus Corner**

Throughout the week Monday-Friday and on weekends, we will offer virtual Q&A sessions for you to drop in and receive assistance on any questions that you might have related to course content. We would love to help! The schedule is available on HuskyCT.

### **Discussion Board!**

You should take advantage of the fact that you are in a class with many other students also working on the same material. You can post questions on our Discussion board (link on HuskyCT) and help one another with the course material.

## **V** **Course Policies**

### **Make-Up/Late Policy**

There will be no make-ups and no extensions for any form of assessment (exams, homework, etc.). Only extreme situations with an officially documented excuse will allow you to make

up an assignment.

## **Missed Exam 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. No further opportunities will be extended. Make-up exams may be penalized up to 10% of the earned grade depending on the reason for the make-up. Failure to contact the instructor as stated above will result in a grade of zero on the exam. This policy applies to the first missed exam only. Repeated offenses will be dealt with on a case-by-case basis, but generally will not be allowed to be made up.

## **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/>.

## **Changes to the Course Syllabus**

The information contained in the course syllabus, other than the grade and absence policies, may be subject to change with reasonable advance notice, as deemed appropriate by the instructor.

# **VI Online Technical Requirements**

## **Software Requirements**

The software/technical requirements for this course include:

- HuskyCT/Blackboard (HuskyCT Accessibility Statement, HuskyCT Privacy Policy)
- Google Apps (Google Apps at UCONN Accessibility, Google for Education Privacy Policy)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- Webcam (through computer, tablet, or phone).

## Minimum Technical Skills

To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files and videos.

## Technical Help

[Technical and Academic Help](#) provides a guide to technical and academic assistance.

This course is completely facilitated online using the learning management platform, [HuskyCT](#). If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the [Help Center](#). You also have [24x7 Course Support](#) including access to live chat, phone, and support documents.