



MATH 1132Q
Calculus II
MW 6:00-9:30pm

Syllabus - Summer Session 2, 2025

Course and Instructor Information

Course Title: Calculus II

Credits: 4

Format: Hybrid/Blended Synchronous Distance Learning

Prerequisites: Recommended Preparation: MATH1131Q or the equivalent (Calculus I)

Professor: Jessica Fuller

Email: jessica.fuller@uconn.edu

Phone/Text (via Google Voice): (860) 255-4615 (standard messaging rates do apply)

Virtual Office Hours/Availability By Appointment: Tuesday, Thursday 11:00am to 7:00pm

Open Office Hours: Two sessions will be held every week (times TBD during class). I will be in my virtual office, pop in if you have any questions <https://uconn-cmr.webex.com/meet/jmf07016>

Appointments must be made through email or text at least 24 hours in advance, shorter times may be considered based on availability.

Ask questions on administration of course or content via email/phone or text message

Course Materials

Textbook Information:

OpenStax Calculus Volume 2 <https://openstax.org/books/calculus-volume-2/pages/1-introduction>
OR *Single Variable Calculus: Early Transcendentals*, J. Stewart

Calculators & Resources: The University of Connecticut does not allow for the use of calculators in the Calculus sequence. No calculators, outside websites, books or unapproved notes are allowed on course exams. Use of prohibited materials will result in a zero on the assessment.

Course Description

Further techniques of integration with applications, convergence of sequences and series, Calculus in the polar coordinate system.

Course Objectives

By the end of the semester, students should be able to:

1. Identify the integration technique required (substitution, by parts, partial fractions decomposition, trigonometric substitution, trigonometric identities)
2. Integrate different functions using substitution, by parts, partial fractions decomposition, trigonometric substitution and trigonometric identities
3. Test a solution to a differential equation.
4. Find a solution to a separable differential equation.
5. Test a sequence for convergence or divergence.
6. Test a series for divergence using the Divergence Test.
7. Test a series for convergence by comparing to known geometric series or p-series.
8. Test a series for convergence using the Integral Test, Alternating Series Test, Ratio Test and Root Test.
9. Find the radius and interval of convergence for a power series.
10. Find Taylor Series representations for certain functions.
11. Convert between the rectangular coordinate system and the polar coordinate system.
12. Use Calculus in applications in the polar coordinate system.

Course Requirements and Grading

Summary of Course Grading Options*:

| Learning Category | Course Components | Weight 1 | Weight 2 | Weight 3 |
|-------------------|------------------------|----------|----------|----------|
| Class Work | Pre-Class Guided Notes | 12.5% | 10% | 10% |
| | Class Participation | 12.5% | 10% | 6% |
| Homework | Homework Sets | 12.5% | 22.5% | 10% |
| | Worksheets | 12.5% | 15% | 8% |
| Assessment | Quizzes | 30% | 20% | 33% |
| | Cumulative Final Exam | 20% | 22.5% | 33% |

*Students may choose from the above 3 grading schemes based on their personal educational practices. If a student does not submit their signed Grading Scheme contract by 07/18 they will default to Weight 1.

Meetings

This is a synchronous virtual class. We will be meeting via WebEx on Mondays and Wednesday from 6:00pm to 9:30pm ET

Meeting link:

<https://uconn-cmr.webex.com/uconn-cmr/j.php?MTID=mf35e75521282ef1845aa28d6d18c6478>

Meeting number:

2630 134 2694

Password: X4mdHu3QBM3

Guided Notes

Basic instruction on topics will be provided through instructional videos to be completed at any time before each class begins as scheduled. There are guided notes corresponding to each instructional video, which must be turned in by 5:30pm on the day we will discuss the topics further as indicated in the Schedule. These guided notes must be turned in on Gradescope via HuskyCT using the assignment links. These notes will provide necessary definitions for in class practice. You may print the notes or copy the notes into a separate notebook.

Class Participation

Success in this course requires attention and participation. Participation each week must be substantive and can take several forms. Up to 4 participation points can be earned each class by a **detailed** (1) Asking/Answering a question in class (2) Asking a question in Office Hours or via email (3) participating during in-class surveys

Homework Sets

Homework for MATH 1132Q is assigned and submitted **in Gradescope via [HuskyCT](#)**. It is designed for practice and mastery of techniques learned in class. You will submit your answers and your work separately. Partial credit may be awarded for work shown even if the answer is incorrect. As this is a summer course, the pace is quick and solutions must be posted so **NO LATE HOMEWORK** will be accepted.

Worksheets

There are worksheets due every Sunday after the course begins. The worksheets will include mostly application questions but may also include concept questions. Each student needs to submit their own work and understand what they are submitting. Worksheets are due on Gradescope via HuskyCT. Late worksheets will be accepted with a late penalty of 10% per day it is late. The last day to submit late worksheets is Tuesday 08-12.

Quizzes

Each class there will be a quiz **during class time** on the content from the previous class similar to the homework due before the quiz. Time during class will be provided to complete the quiz for the day. You will submit your answers in the HuskyCT Quiz and your work separately using Gradescope via HuskyCT.

It will be proctored via WebCam using a **Lockdown Browser**. A practice quiz will be available to help you test your browser and get used to the testing environment. Successful completion of the practice quiz will earn extra credit towards your overall quiz grade.

You will need blank scratch paper but in general you may not use notes or any device other than the computer running the quiz unless otherwise stated in writing by the professor. Use of unauthorized materials on a quiz will result in a score of zero.

Final Exam

There is a cumulative final exam on **Wednesday, August 13th during class time 6:30pm-9:30pm**. It will include questions on topics from throughout the semester similar to the homework and quizzes.

It will be proctored via WebCam using a Lockdown Browser. A practice exam will be available the week before the exam. Successful completion of the practice exam by 6pm Tuesday 08-12 will earn up to 5% extra credit towards your Final Exam grade.

You will need blank scratch paper but in general you may not use notes or any device other than the computer running the quiz unless otherwise stated in writing by the professor. Use of unauthorized materials on a quiz will result in a score of zero.

Course Policies

Due Dates and Late Policy

All course due dates are identified in the table on the next page. Specifics will be given in HuskyCT. Deadlines are based on Eastern Time; if you are in a different time zone, please adjust your submittal times accordingly. *The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.* No late homework sets will be accepted.

Late Worksheets will be accepted with a late penalty of 10% per day late but **must be received by August 12, 2023 at 11:59pm EST.**

Feedback and Grades

Sample Solutions to Homework Sets will be posted by 12pm the day after they are due for comparison purposes. I will make every effort to provide feedback and grades within 3 or 4 days of when an assignment is due depending on the assignment. To keep track of your performance in the course, refer to My Grades in HuskyCT.

Weekly Time Commitment

You should expect to dedicate 16 - 24 hours a week to this course. This expectation is based on the various course activities, assignments, and assessments and the University of Connecticut's policy regarding credit hours. More information related to hours per week per credit can be accessed at the [Online Student website](#).

Student Authentication and Verification

The University of Connecticut is required to verify the identity of students who participate in virtual courses and to establish that students who register are the same students who participate in and complete the course activities and assessments and receive academic credit. Authentication of student identity will include:

1. Secure access to the learning management system using your unique UConn NetID and password.
2. Exams will be proctored using a Lockdown Browser with Monitor accessed in HuskyCT. You need your ID available.

Course Schedule

| Dates | Mon. | Tues. | Wed. | | Sun. |
|--------------------------|---|--|---|--|--|
| Week 1 7/14 & 7/16 | 1.5 Substitution 3.1 By Parts 3.4 Partial Frac | Practice/Cal c Review Quiz Extra Credit Guided Notes 1.5, 3.1, 3.4 HW Set 1 Due by 11:59pm | 3.3 Trig Sub 3.2 Trig Integrals 3.2, 3.3 Guided Notes Due by 5:30pm Quiz 1 | | HW Set 2 Worksheet 1 Due by 11:59pm |
| Week 2 7/21-7/23 | 3.6 Approx Int 3.7 Improper Int 2.5 Work 3.6, 3.7, 2.5 Guided Notes Due by 5:30pm Quiz 2 | HW Set 3 Due by 11:59pm | 2.4 Arc length 4.1 Intro to DiffEQ 4.3 Separable DiffEQ 2.4, 4.1&4.3 Guided Notes Due by 5:30pm Quiz 3 | | HW Set 4 Worksheet 2 Due by 11:59pm |
| Week 3 7/28-7/30 | 7.1, 7.2 Parametric 7.3, 7.4 Polar 7.1, 7.2, 7.3 Guided Notes Due by 5:30pm Quiz 4 | HW Set 5 Due by 11:59pm | 7.3, 7.4 Polar 5.1 Sequences 5.2 Series 7.4, 5.1, 5.2 Guided Notes Due by 5:30pm Quiz 5 | | HW Set 6 Worksheet 3 Due by 11:59pm |
| Week 4 8/04-8/06 | 5.3 Divergence & Integral Tests 5.4 Comparison Tests 5.5 Alternating Series 5.3, 5.4, 5.5 Guided Notes Due by 5:30pm Quiz 6 | HW Set 7 Due by 11:59pm Practice Final Posted | 5.6 Ratio&Root Tests 6.1&6.2 Power Series 5.6, 6.1, 6.2 Guided Notes Due by 5:30pm Quiz 7 | | HW Set 8 Worksheet 4 Due by 11:59pm |
| Week 5 8/11-8/13 | 6.3 Taylor Series 6.3 Guided Notes Due by 5:30pm Quiz 8 | HW Set 9 Due by 11:59pm Practice Final Due by 6pm | Final Exam 6:00pm- 9:30pm | | |

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Student Responsibilities and Resources

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important [standards, policies and resources](#), which include:

- The Student Code (Academic Integrity and Resources on Avoiding Cheating and Plagiarism)
- Copyrighted Materials
- Credit Hours and Workload
- Netiquette and Communication
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

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/>.

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government.” (Retrieved March 24, 2013 from [Blackboard's website](#))

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- HuskyCT ([HuskyCT/ Blackboard Accessibility Statement](#), [HuskyCT/ Blackboard Privacy Policy](#))
- [Adobe Acrobat Reader](#) ([Adobe Reader Accessibility Statement](#), [Adobe Reader Privacy Policy](#))
- Google Apps ([Google Apps Accessibility](#), [Google for Education Privacy Policy](#))
- Dedicated access to high-speed internet (minimum speed 1.5 Mbps but 4 Mbps is recommended)
- WebCam
- Ability to scan handwritten work in as a PDF (apps like CamScanner are acceptable)

For information on managing your privacy at the University of Connecticut, visit [University's Privacy page](#).

NOTE: This course has NOT been designed for use with mobile devices.

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.

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.
- Create PDF files of handwritten work.

University students are expected to demonstrate competency in Computer Technology. Explore the [Computer Technology Competencies](#) page for more information..

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the [Office of Institutional Research and Effectiveness](#) (OIRE).

Additional informal formative surveys may also be administered within the course as an optional evaluation tool.