MATH 1132Q – Section 320: Calculus II
Summer 2025

07/14/2025 to 08/15/2025

Please note that the content of this syllabus, except required course materials, are subject to change by 7/14/2025.

Instructor: Dr. Vindya Pathirana

How can you contact me?	How can you meet me? Online via Webex Open Office Hours.	Class Format:	How can you access class materials?
Dr. Vindya Pathirana (Dr. V) vindya.pathirana@uconn.edu	**Weeks 1, 3, & 5: Thursday** **Weeks 2 & 4: Wednesday** **10:00 AM – 12:00 PM** **4:00 PM – 6:00 PM**	**Online – Asynchronous**	**Online on HuskyCT**

Important!

- As this course is offered in an online-asynchronous format, there will be no scheduled meeting times or days.
- You will have access to the course materials, including lecture notes, lecture recordings, and workout example recordings, online in **HuskyCT**.
- *You can also use the HuskyCT/Blackboard messaging system to communicate with the instructor.*
- *All times for due dates (Exams, Quizzes, Worksheets, & Homework), online office hours, and Tutoring Center hours in this course are given in **US Eastern Time (EDT)**.*

Inclusion Statement

My goal is to foster an inclusive learning environment where all students are equipped with the tools they need to succeed and grow intellectually. To support students with diverse ways of thinking and learning, I have implemented innovative teaching methods that cater to various learning styles, encourage engagement, and allow for different forms of assessment. Together, we will create a cohesive community of learners where we can showcase our strengths, support one another, and appreciate the beauty and utility of mathematics.

How will the Lectures be Delivered?

All course instructions will be delivered remotely and asynchronously. You will have access to the course materials, including lecture notes, lecture recordings, and workout example recordings, online

on HuskyCT. The online videos can be watched at any convenient time, but I strongly urge you to watch them during the week they are listed on the Course Schedule.

How Can I Communicate with the Instructor?

Announcements and essential course information will be sent via your official UConn email or through HuskyCT, UConn's learning management system. It is the student's responsibility to check messages and announcements daily. This is particularly important for transfer/nondegree students, so please check your UConn email account regularly.

Students should communicate with the instructor via email or through the Campuswire Discussion Board (a link will be provided at the start of the semester on HuskyCT). All questions related to course content should be posted on the discussion board. You can ask general questions about the course material on Campuswire, and I will respond so that everyone can benefit from the Q&A.

What Will You Learn in This Course?

Transcendental functions, Formal integration, Modelling with Differential Equations and Separable Equations, Parametric Equations & Polar Coordinates, Infinite Sequences & Series, and Applications to Physical Sciences and Engineering.

What is the Prerequisite?

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.

The students are assumed to have a working knowledge of all material covered in the prerequisite courses. Students are strongly encouraged to ask questions during the instructor's office hours, via the Campuswire class feed, and by email.

What is the Expected Weekly Time Commitment?

This course moves quickly! Since it is condensed into five weeks instead of the usual fifteen, you can expect the content to progress three times faster than during a regular semester. It is essential to stay up to date with the material. Please don't hesitate to use me as a resource and guide throughout the course.

(Please note that the expected weekly commitment for a 4-credit course during a regular semester is between 12 and 15 hours. 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).

Can I Use a Calculator?

Calculators are not allowed for exams and quizzes. However, scientific and/or Models TI-82, 83, 84, 84-plus may be used on WebAssign Homework and Worksheets. Calculators that can perform symbolic computations, such as models TI-89 and above (including TI-Nspire), are NOT permitted.

Can I use my Cell Phone?

Cell phones cannot be used as calculators. All cell phones must always be turned off and kept out of sight during the exams. Once you finish an exam, you may use your cell phone or other electronic device to scan your exam solutions to submit to HuskyCT.

What are the Required Materials?

**There are no required course materials. The instructor provides lecture notes and videos.

The Textbook:

The optional course textbook is ***Calculus: Early Transcendentals*** **by James Stewart (8th Edition)**

What digital technology tools and equipment will you need for this course?

Most of the course assessments (Exams, Quizzes, and worksheets) will require you to upload a pdf of your work. For this, you will need access to a device that will allow you to scan and save your work as a pdf document, such as a scanner or scanner app on a smartphone. The software/technical requirements for this course include:

- HuskyCT/Blackboard access.
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- Respondus Lockdown Browser (install it through Blackboard)
- All proctoring will require the use of a webcam (computer, tablet, or phone).

Minimum Technical Skills -

- 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.

It is recommended (not mandatory) that you take Student Technology Training - a video training for students available on HuskyCT Institution page under "Useful Links for Students".

What Topics will be Covered?

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

Module 1: Integration Techniques and Applications.

Dates: July 14th → July 24th

Sections covered:

- 5.5 – 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.

Quizzes and Worksheets DUE: Sunday, July 20 and Wednesday, July 23 @ 11:59 PM.

Exam 1: Thursday, July 24th

Module 2: Sequences and Series.

Dates: July 25th → August 7th

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.
- 11.7 – Choosing a 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.

Quizzes and Worksheets DUE: Sunday, August 3 and Wednesday, August 6 @ 11:59 PM.

Exam 2: Thursday, August 7th

<u>Module 3</u>: Parametric Equations and Polar Coordinates.

Dates: August 8th → August 15th

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 – Areas in Polar Coordinates.

Quizzes and Worksheets DUE: Thursday, August 14 @ 11:59 PM.

Final Exam: Friday, August 15th **CUMULATIVE

Will an Exam Review Be Provided?

Each exam will have a review with questions similar to the actual exam format. Exam reviews will be made available ahead of each exam. It is highly recommended that you complete the review to help prepare for the course exams.

Will There be Any Extra Credit Opportunities?

Some extra credit questions may be available on each exam. All extra credit opportunities will be offered to the entire class. Extra credit assignments will not be available for individual students at any time.

Dates to Remember:

Monday, July 14	Summer Session 2 begins.
Friday, July 18	Last day to add or drop a course without an additional signature. Courses dropped after this date will have a "W" for withdrawal recorded on the academic record.
Thursday, August 14	Last day to withdraw from a course.
Friday, August 15	Last day of summer session 2.
Monday, August 18	Semester grades are due.

How will I be assessed in this course?

****** For all handwritten assessments, please note that all work must be shown ******

NO WORK = NO CREDIT

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

Grading Breakdown:

Option 1	Weight		Option 2	Weight
Exam 1	25%		**Exam 1**	20%
Exam 2	25%		**Exam 2**	20%
Final Exam	25%		**Final Exam**	20%
Quizzes	25%		**Quizzes**	15%
			Worksheets	15%
			Participation	10%

Midterms and Final Exams:

There will be *two midterm exams* and a cumulative final exam given during the semester. *No makeup exams will be given*.

Exam 1 – Covers Module 1 - **Thursday, July 24**
Exam 2 – Covers Module 2 - **Thursday, August 07**
Final Exam – CUMULATIVE - **Friday, August 15**

Exams consist of multiple-choice and True/False questions. They will be timed and administered using the LockDown Browser/Respondus on HuskyCT. This is a proctoring application that must be downloaded in advance and requires the use of a webcam and microphone, which are necessary for the course. After completing the exam, you must submit your work to earn credit, including any partial credit. Exams will be available for you to take at your convenience during a 12-hour window on the specified exam day, from 10 AM to 10 PM EST. Please note that any violation of academic integrity related to an exam will result in a grade of 0 for that exam and a referral to the disciplinary board.

***For additional details about the exam process, please refer to the Exam Information document.*

***Please note that exam dates are tentative and subject to change based on the course's progress.*

Quizzes:

After watching the lecture video, you will need to complete a quiz that covers the material presented in the lecture. A quiz will be conducted for most of the sections covered in the course. This quiz will

consist of multiple-choice and true/false questions, so it's essential to stay up to date with the course content. The quizzes will be auto graded on HuskyCT. Additionally, a lockdown browser will be used for proctoring. To receive credit for the quiz, including partial credit, you must submit your work. The two lowest quiz grades will be dropped, so there will be *no make-up quizzes* for any reason. Please do not even ask.

*** The quizzes will be due on Sundays and Wednesdays at 11:59 PM with possible exceptions.*
(see course calendar)

***For additional details about the quiz process, please refer to the Quiz Information document.*

Worksheets (Only for Option 2):

There will be short worksheets (2-3 problems) accompanying each of the sections covered in this class and they will be available on HuskyCT. You need to submit your worksheet via Gradescope, which is linked with the HuskyCT section. **To access worksheets**, go to HuskyCT, and then **click on the Worksheet link**. The 3-lowest worksheet grades will be dropped, so there will be *no make-up worksheets* for any reason. Please do not even ask.

*** The worksheets will be due on Sundays and Wednesdays at 11:59 PM with possible exceptions.*
(see course calendar)

Participation (Only for Option 2):

As part of your participation grade, you are required to

(i) complete daily check-in quizzes posted on Campuswire.
(ii) interact with your peers and instructor through an online discussion board and/or virtual office hours.

You must earn 15 participation points during the semester to receive full credit for participation. Points can be earned in the following ways:

Daily Check-in Quizzes: According to the suggested course schedule, a short quiz (not timed or proctored) will be posted on Campuswire each day from the content is assigned. Each quiz consists of 1-2 questions and is worth 1 point. The quizzes may include multiple-choice, true/false, and short-answer questions. You do not need to show your work for these quiz problems.

Interaction Points: You can earn the remaining points by actively participating in office hours and interacting on Campuswire discussion board/class feed (asking and answering questions). Each active participant will earn 1 point per session during office hours.

Note: ***There will be no check-in quizzes on exam days or the day before an exam.***
Students can earn at most 4 participation points per week.

Grading Policy:

The plus/minus grading system will be used. If your overall percentage of total points falls into the following range, you will receive the corresponding grade:

GRADING SCALE			
≥ 93%	**A**	[73%, 77%)	**C**
[90%, 93%)	**A-**	[70%, 73%)	**C-**
[87%, 90%)	**B+**	[67, 70%)	**D+**
[83%, 87%)	**B**	[63%, 67%)	**D**
[80%, 83%)	**B-**	[60%, 63%)	**D-**
[77%, 80%)	**C+**	< 60%	**F**

******Success in this course depends on the amount of time and effort spent working through the homework to understand the material, not the time and effort spent memorizing and imitating examples.***

Course Policies

Make-Up/Late Policy

Make-up assessments and extensions for any assignments are not allowed. Only extreme situations with documented excuses will be considered for rescheduling.

Makeup Exams

Suppose you have an approved reason preventing you from attending the exam at its scheduled time. In that case, you must inform your instructor in advance (at the beginning of the semester or at least three days before the scheduled absence) to arrange a makeup exam.

Makeup Exam Day: **Thursday, August 14.** Time: **TBD**

- *Students unable to attend an exam due to an emergency must email their instructor as soon as possible and within 36 hours of the scheduled exam time.*
- *Make-up exam arrangements will be considered on a case-by-case basis and will be at the instructor's discretion.*
- *If a student is permitted to take a make-up exam, it must be completed at a mutually agreed-upon time on Thursday, August 14. No additional opportunities will be offered.*
- *Please note that make-up exams may incur a penalty of up to 10% of the grade earned, depending on the reason for the make-up.*

- *Failure to notify the instructor as specified will result in a grade of zero for the missed exam. This policy applies only to the first missed exam.*
- *Repeated offenses will be addressed on a case-by-case basis; however, make-up exams will generally not be permitted for subsequent missed exams.*
- *Please note that employment schedules, vacations, previously purchased tickets or reservations, graduations, social events (family reunions, etc.), misreading the assessment schedule, and oversleeping are not viable reasons for a makeup exam.*
- *Unless it is a medical reason, students must provide documentation to support the absence. All communications regarding this must be conducted via UConn e-mail.*
- *A student cannot make up more than one midterm exam during the semester.*
- *In a rare occasion, if a student also misses the makeup exam day, due to approved absence, an appropriate temporary grade will be assigned. The date and time of a makeup exam will be agreed upon between the student and the instructor, taking into account the availability of both parties. All communications regarding this matter must be conducted via UConn email. More information on Temporary Grades can be found here.*

Proctoring

LockDown Browser and Respondus Monitor (with web cam) will be utilized to supervise exams and quizzes in this course.

LockDown Browser

We will be giving the exam through HuskyCT's testing tool and will be requiring the LockDown Browser for taking the exam. The LockDown Browser is a browser that must be downloaded and installed on the computer with which you will be taking your exam/quiz. When you are ready to take your exam/quiz, you will have to open your exam/quiz through the LockDown Browser. During that time, you will be unable to access other applications. For information about downloading, installing, and using the LockDown Browser, please visit LockDown Browser for Students.

Authentication and Monitor

I will also be using the Monitor feature on the LockDown Browser. The Monitor feature will record you as you take your exam/quiz. Because of this, you will need a webcam to take your exam/quiz. Without a working webcam, you will not be able to proceed with the exam/quiz. Before beginning the exam/quiz, you will need to do two things:

- **Authentication**
  Hold up your ID (UConn or other university or government-issued ID that allows us to clearly see your name and picture together) to the camera. For more information about why we are requiring authentication, please visit Authentication of Students in the Event of Teaching Disruption.

- **Environment check**
  Use your webcam to scan the entire room so we can be sure that no unauthorized materials are being used.

UConn Email:

All students are provided with an official UCONN email address that is the primary means of communication between the students and the instructor outside of the class. Any email you send to your instructor must have the subject heading: "**MATH 1132Q**" or "**Calculus II**". In the body of the e-mail, you must identify yourself (first and last names).

HuskyCT (Blackboard)

All the class announcements and class notes will be posted on HuskyCT. Students should check HuskyCT regularly for class announcements and course materials. Additionally, students can view and track grades through HuskyCT.

Zero Tolerance Policy

If a student is caught cheating on any of the assessment components whether it is a single homework, worksheet, quiz, or exams regardless of the weight of the assessment towards the final grade, the student shall receive a **F** for the entire course and will be reported to the community standards office. **No exceptions.**

RESOURCES

Request for Accommodations:

Student Disability Policy: The Center for Students with Disabilities (CSD) at UConn provides accommodation and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodation and have not contacted the CSD, please do so as soon as possible. Detailed information regarding the accommodations process is also available on their website or at www.csd.uconn.edu.

Academic Integrity and Disruption of Academic Process:

We expect the highest standard of academic integrity from our students. Any cheating will result in a failing grade for the assignment, quiz, or the exam, and possibly for the course. This course expects all students to act in accordance with the Guidelines for Academic Integrity at the University of Connecticut. Because questions of intellectual property are important to the field of this course, we will discuss academic honesty as a topic and not just a policy. If you have questions about academic integrity or intellectual property, you should consult your instructor. Additionally, consult UConn's guidelines for academic integrity.

Temporary Grades – I, N, or X: Please refer to office of the registrar/grades.
S-U Grade Policy: Please refer to office of the registrar/grades

Miscellaneous Policies:

- State common law and federal copyright law protect my lectures, notes, handouts, assessments, and displays. Students are not authorized to provide copies of class materials to anyone else, or make commercial use of them without prior permission from me. Posting any of my assessments, including but not limited to exams, quizzes, and solutions to recommended problems to any website or social media site violates this policy.
- Please refer to the References for Syllabi Links for more information regarding important university policies. For other issues not addressed in this syllabus see the UCONN Undergraduate Student Catalog.

The Courses with a Q Designation:
This course is a Q course, meaning that it has been approved as meeting the General Education requirements for the Quantitative competency. It is a university requirement that Courses with a Q designation should have the following attributes:

- Mathematics and/or statistics at or above the basic algebra level must be an integral part and used throughout the course.
- Courses must include use of basic algebraic concepts such as formulas and functions, linear and quadratic equations and their graphs, systems of equations, polynomials, fractional expressions, exponents, powers and roots, problem-solving and word problems. Formal abstract structures used in symbolic logic and other algebraic analyses are acceptable.
- Courses should require the student to understand and carry out actual mathematical and/or statistical manipulations and relate them to whatever data might be provided in order to draw conclusions. Merely feeding numerical data into a program on a computer or a calculator to obtain a numerical result does not satisfy this requirement. Technology should be viewed as a tool to aid understanding and not as a driver of content.

Your instructor reserves the right to make changes to the course syllabus and calendar for clarification, to correct any errors, or to adjust to the needs of the class (e.g., addressing learning pace, responding to student feedback, coping with unforeseen circumstances)

Syllabus last updated: July 13, 2025