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

Let me introduce myself to you:

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** **8:00 AM – 10:00 AM** **6:00 PM – 8:00 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)**.*

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.*

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), which is bundled with a WebAssign access code for online homework.

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

Because this is an online class, you will need a computer and internet to access the course. In addition, we will be using Respondus Lockdown Browser to proctor exams and quizzes. All proctoring will require the use of a webcam. Finally, most of the course assessments will require you to upload a PDF of your work. For this, you will need access to a device allowing you to scan and save your work as a PDF document, such as a scanner or scanner app on a smartphone.

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:

- o 5.5 – Integration by U-Substitution & Review.
- o 7.1 – Integration by Parts.
- o 7.2 – Trigonometric Integrals.
- o 7.3 – Trigonometric Substitution.
- o 7.4 – Integration by Partial Fraction Decomposition.

- 7.7 – Approximate Integration.
- 7.8 – Improper Integrals.
- 6.4 – Work.
- 8.1 – Arc Length.

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

Exam 1: Thursday, July 24th

<u>Module 2:</u> 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, Worksheets, and HW 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, Worksheets, and HW DUE: Thursday, August 14 @ 11:59 PM.

Final Exam: Friday, August 15th **CUMULATIVE

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

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	10%
			WebAssign HW	15%

Midterm 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, fill-in-the-blank, 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)

WebAssign Homework (Only for Option 2):

Homework assignments are accessed through the online homework system called WebAssign. On WebAssign, you also have an electronic copy of the textbook, together with other resources such as lecture videos & examples. There is an online homework assignment for each section we cover. **To access homework assignments**, go to the **HuskyCT**, and then **click on the WebAssign Homework link**.

*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 first two attempts, please talk to someone about it – this could be your professor, a fellow classmate, a tutor, or someone at the Waterbury Tutoring Center. The 3 lowest homework grades will be dropped.

Warning: When accessing your online homework, use **Chrome or Firefox as your browser**; there are problems that can occur if you use Internet Explorer or Safari. *Useful tips on using WebAssign can be found* <u>here.</u>

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

** *You can use a 14-day free trial period to complete your WebAssign homework until you purchase/receive an access code.*

***Please note that the 14-day free trial starts on the first day of the WebAssign course start date.*

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.

<u>Makeup Exam Day</u>: **Thursday, August 14.**   <u>Time</u>: **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 <u>must provide</u> documentation to support the absence. All communications regarding this must be conducted via UConn e-mail.*
- *A student <u>cannot</u> make up <u>more than one</u> 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 <u>here</u>.*

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. When you are ready to take your exam, you will have to open your exam 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. Because of this, you will need a webcam for the purpose of taking your exam. Without a working webcam, you will not be able to proceed with the exam. Before beginning the exam, 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

Q Center (Storrs):

For extra help in this class, please be sure to visit the Quantitative Learning Center (Q-Center).

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

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.

Miscellaneous Policies:

- Please do not hold conversations, either with your classmates or your cell phones, during the lecture sessions. (Cell phones must always be turned off).
- State common law and federal copyright law protect my lectures, notes, handouts, assessments, and displays. Students are authorized to take notes in our class; however, this authorization

extends only to making one set of notes for your own personal use and no other use. You must obtain permission from us if you wish to audio record or video record my lecture. If you are so authorized to record my lectures, you may not copy this recording or any other material, provide copies of either to anyone else, or make a 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 <u>References for Syllabi Links</u> for more information regarding important university policies. For other issues not addressed in this syllabus see the UCONN Undergraduate Student Catalog.

  - The University's COVID website has the most up-to-date information on the precautions placed on campus to keep everyone safe: <u>https://covid.uconn.edu/.</u>

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: May 28, 2025