MATH 1132Q – 20/W20 Calculus II Summer 2022

07/11/2022 to 08/12/2022

Please note that the content of this syllabus, except required course materials are subject to change by 07/11/2022.

Instructor: Vindya Kumari Pathirana, Ph. D.
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If you have any questions or concerns regarding the course (administrative questions), email your instructor. Please include "**Calculus II**" in the subject line.

Teaching Assistants: **Surya Eada** (surya.eada@uconn.edu)
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Class Format: **Online - Asynchronous**

As this course is offered in the online-asynchronous format, there won't be scheduled meeting times/days. You will have access to the course materials including lecture notes, lecture recordings, workout examples (with recordings) online in HuskyCT.

Office Hours by Appointments: **Online via WebEx.** Use Nexus to make 30 minutes appointments

Week 1 – 2	**Thursdays,**	**8:00 am – 10:30 am**	**&**	**8:00 pm – 10:30 pm**
Week 3 – 5	**Thursdays,**	**9:30 am – 12:30 pm**	**&**	**7:00 pm – 9:00 pm**

Problem Sessions:

In addition to instructor office hours, we will be holding problem sessions conducted by teaching assistants. These problem sessions are intended to focus on the material that should have been covered from the day before (with possible exceptions).

- Tuesday problem session will cover your questions from Monday.
- Wednesday problem session will cover your questions from Tuesday
- Thursday problem session will cover your questions from Wednesday.
- Friday problem session will cover your questions from Thursday.
- Monday problem session will cover your questions from Friday.

The schedule for Problem Sessions is as follows:

Week 1	**Tuesday, Wednesday, Thursday, & Friday (see course calendar for details)**
Week 2 – 5	**Monday, Tuesday, Wednesday, & Thursday (see course calendar for details)**

We will also be using and moderating the HuskyCT discussion board for this class, so any math related questions may be posted there. ***See course calendar for problem session times and TA information.***

Course Description:

Transcendental functions, formal integration, polar coordinates, infinite sequences and series, parametric equations, with applications to the physical sciences and engineering.

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.

It is assumed that the students have a working knowledge of all material covered in the prerequisite courses. Students are strongly encouraged to ask questions both in and out of class.

Required Materials

Textbook with WebAssign Access Code

The textbook for the course is ***Calculus: Early Transcendentals* by James Stewart (8th Edition)**, which is bundled with a WebAssign access code for online homework. You can choose from three (3) options at the UConn bookstore (based on how many math courses you intend to take at UConn) and one option online through Cengage directly.

- **Option 1** (Choose if you are only taking 1132). ***Single Variable Calculus: Early Transcendentals***, 8th Edition, by James Stewart with WebAssign Access Code.
- **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
- **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
- **Option 4:** You can also opt for a ***1-term Cengage Unlimited* subscription**, which provides access to the eBook and WebAssign HW. (Choose if you don't mind eBooks and/or if you have other courses requiring Cengage material)

IMPORTANT!

- The textbook can be purchased at the UConn Bookstore. Please see the Math 1131Q/1132Q Book Options document for purchasing options and prices.
- *You only need to choose one of the three above bundles listed at the bookstore.*
- If you already purchased a textbook and HW access for MATH 1131Q at UConn you do not need to repurchase anything for MATH 1132Q and your HW access will still be valid.

Technology:

Because this is an online class, you will need a computer and internet in order to access the course. In addition, we will be using *Respondus Lockdown Browser* to proctor exams. All proctoring will require use of a webcam. Finally, some of the course assessments 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.

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

Calculator Policy:

Calculators are **not** allowed no exams. However, scientific and/or Models TI-82, 83, 84, 84-plus may be used on WebAssign homework. Calculators that can perform symbolic computations, such as models TI-89 and above (including TI-Nspire), are NOT permitted.

Cell Phone Policy:

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 in order to submit to HuskyCT.

Course Content:

Chapter 6 – Applications of Integration:	**6.4**
Chapter 7 – Techniques of Integration:	**7.1- 7.4, 7.7 & 7.8**
Chapter 8 – Further Applications of Integration:	**8.1**
Chapter 9 – Differential Equations:	**9.1 & 9.3**
Chapter 10 – Parametric Equations and Polar Coordinates:	**10.1 – 10.4**
Chapter 11 – Infinite Sequences and Series:	**11.1 – 11.11 (omit 11.7)**

Important Dates:

Tuesday, July 11	Summer Session 2 begins.
Friday, July 15	Last day to add or drop course without additional signature. Courses dropped after this date will have a "W" for withdrawal recorded on the academic record.
Thursday, August 11	Last day to withdraw from a course.
Friday, August 12	Last day of summer session 2.
Monday, August 15	Semester grades due.

Assessments

Midterm Tests (70%):

There will be *4 midterm tests* given during the semester. The 3 best exam grades count 60% (20% each) and the lowest exam counts 10% of your course grade. *No makeup exams will be given*.

Exam 1 – Sec 7.1 - 7.4, 7.7, 7.8, 6.4, 8.1 **- Friday, July 22**
Exam 2 – 9.1, 9.3, 10.1 – 10.4 **- Friday, July 29**
Exam 3 – Sec 11.1 - 11.5 **- Friday, August 05**
Exam 4 – Sec 11.6, 11.8 – 11.11 **- Friday, August 12**

Please Note: *Exam dates are tentative and subject to change depending on progress of course.*

Worksheets (15%):

There will be short worksheet (2-3 problems) accompanying each of the sections covered in this class and they will be posted on HuskyCT by every Monday, except on the days of exams & exam reviews. 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 Thursdays at 11:59 PM.**

Homework (15%):

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 Online. The 4 lowest homework grades will be dropped. **The homework will be due on Thursdays at 11:59 PM.**

*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 here.*

Grading Breakdown:

EVENT	PERCENTAGE
3 Best Exams	60%
Lowest Exam	10%
Worksheets	15%
WebAssign Homework	15%
Total	**100%**

Success in this course is dependent upon 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.

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			
93-100%	**A**	73-76%	**C**
90-92%	**A-**	70-72%	**C-**
87-89%	**B+**	67-69%	**D+**
83-86%	**B**	63-66%	**D**
80-82%	**B-**	60-62%	**D-**
77-79%	**C+**	0-59%	**F**

Exam Policies

Proctoring

LockDown Browser and Monitor will be used to proctor each of the four midsemester exams in this class.

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.

Lockdown Browser and Chromebooks:

Please note that the LockDown browser does not work with Chromebooks. If you will be using a Chromebook for this class, please notify me immediately so I can provide you with an alternative method of proctoring.

Makeup Exams

Missing an exam is a serious issue. I do not give makeup exams. If you miss an exam due to an **excused absence**, I will give you a chance to make it up on Thursday, August 11. Reasons for excused absences include **documented** illness, deaths in the immediate family and other documented crises, call to active military duty, court-imposed legal obligations (e.g., jury duty and subpoenas), religious days, special requirements of other courses and university sponsored events (e.g., performances, games/meets, judging trips, field trips), and severe weather conditions. Employment schedules, family reunions,

vacations and athletic training/practice schedules of students do not comprise a valid excuse for absences.

Students must notify their instructors of scheduled absences (for approved reasons as noted above) at the beginning of each academic term or at least a week prior to the scheduled absence. Pointing out specific conflicts with scheduled examinations or other scheduled assignments/activities should be part of this notification. In the event of an emergency unscheduled absence (as described above), students must contact the instructor within a week of the absence and **must provide documentations** to support the absence.

In case of a missed exam please contact your instructor as soon as you know you will miss it, and no later than 24 hours after the exam.

RESOURCES AND POLICIES

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

Late Assignments:
No late assignments will be accepted. If you fail to take a test, or if you do not submit a test or an assignment on time, you will receive a grade of 0 for that test, or assignment.

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

Email policy:
Any email you send to your instructor must have the subject heading: "**MATH 1132 (or Calculus II)**". In the email you must identify yourself (first and last names).

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.**

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 or the test, 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 with 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

Request for Accommodations:
Student Disability Policy: The Center for Students with Disabilities (CSD) at UConn provides accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations 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.

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 of 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.