MATH 1131Q – W31 Calculus I Fall 2019

Instructor: Vindya Kumari Pathirana, Ph.D.
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Office Location: **WTBY 312**
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Office Hours: **Monday/Wednesday/Friday**
9:15 am – 11:00 am or by appointments (WTBY 312)

Tuesday
12:30 pm – 3:30 pm (Tutoring Center – WTBY 207)

Class Meeting Days and Times: Monday / Wednesday / Friday
8:00 am – 9:10 am

Class Location: **WTBY 327**

Effective Dates: 08/26/2019 to 12/15/2019

Course Description:
This course is an introduction to differential and integral calculus, which is the mathematical language used in any science concerned with dynamically changing quantities. The main topics are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and various applications of these ideas.

Textbook Information:
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.

Course Content:

Chapter 2: Limits and Derivatives:	2.1- 2.8
Chapter 3: Differentiation Rules:	3.1- 3.6 & 3.8 - 3.10
Chapter 4: Applications of Differentiation:	4.1- 4.4, 4.7, & 4.9
Chapter 5: Integrals:	5.1- 5.5
Chapter 6: Applications of Integration:	6.1

Buying the Textbook and WebAssign Access Code:
You can buy the **bundled version** of Calculus Early Transcendentals, by James Stewart (8th Edition) at the UConn Barnes and Nobles store (bookstore). Both the text and the WebAssign code are **required** for this course. You have the choice of buying one of the following versions of the text, depending on how much calculus you plan to take in the future:

IMPORTANT!

- **If you do NOT plan to take Math 2110** (Multivariable Calculus), then you have the option to purchase ***Single-Variable Calculus: Early Transcendentals*** by Stewart (8th Edition) – Costs around $90.00
- **If you plan to take Math 1131, 1132, *and* 2110** (Multivariable Calculus) then you should purchase ***Calculus: Early Transcendentals*** by Stewart (8th Edition) that has chapters on multivariable calculus in the table of content – Costs around $100.00
- **If you plan to take Math 1131, 1132, 2110 and Math 2410** (Elementary Differential Equations), then you have the option to purchase ***Calculus: Early Transcendentals*** by Stewart (8th Edition) bundled with the one-semester Differential Equation book, ***A First Course in Differential Equations with Modelling Applications*** by Dennis G Zill (11th Edition) – Costs around $160.00

Important Dates:

Monday, August 26	Fall semester begins
Monday, September 2	Labor Day - No classes
Monday, September 9	Last day to add or drop courses
Friday, Oct 5	Mid-Semester progress reports
Sunday, Nov 18 - Saturday, Nov 24	Thanksgiving recess – No classes
Friday, Dec 7	Last day of fall semester
Monday, Dec 10 – Sunday, Dec 16	Final Exam week

Expectations:

Calculus is hard and requires a lot of thought. Homework is extremely important; in general, for each hour of class, you should expect to have to do two hours of work outside of class doing the homework and learning the material.

Prerequisite:

A qualifying score of 22 on the mathematics placement exam (MPE). Students who fail to achieve this minimum score are required to spend time on the preparatory and learning modules before re-taking the MPE, or to register for a lower level Mathematics course. Not open for credit to students who have passed MATH 1132Q or 1152Q.

- **It is assumed that the student 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.**

Calculator Policy:

The use of calculators IS NOT allowed on exams, quizzes, and worksheets.

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 class, exams, quizzes, & worksheets).

Midterm Tests (50%):

3 midterm tests will be given during the semester. The 2 best test grades count 40% (20% each) and the lowest test counts 10% of your course grade. *No makeup tests will be given*.

Test 1 – Chapter 2 **- Wednesday, September 18**
Test 2 – Chapter 3 **- Wednesday, October 16**
Test 3 – Chapter 4 & Chapter 5 **- Wednesday, November 20**

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

Final Exam (24%):

The final exam will be cumulative and contain written answer questions. The date and time for this will be announced later during the semester once the UCONN-Waterbury campus final exam schedule is available.

Final Exam Policy—In accordance with UConn policy, students are required to be available for their final exam and/or complete any assessment during the time stated. If you have a conflict with this time you must obtain official permission to schedule a makeup exam with the Office of Student Support and Advocacy (OSSA). If permission is granted, OSSA will notify the instructor. Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the assessment schedule, and oversleeping are not viable reasons for rescheduling a final.

Homework (10%):

Homework assignments are accessed through 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 **Husky CT**, 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 **Tutoring Center** located in WTBY 207. The 4 lowest homework grades will be dropped. **The homework will be due on Tuesdays 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.***

In-class Activity - Quizzes / Worksheets (16%):

There will be a short (10 - 15 min) quiz/worksheet (group or individual) given during the class almost every day (except on exam days). The 3-lowest grades will be dropped. So there will be *no make-up quizzes/worksheets* for any reason. Please don't even ask.

Grading Breakdown:

EVENT	PERCENTAGE
3 Midterm Tests	50%
Final Exam	24%
WebAssign Homework	10%
In-class Quizzes / Worksheets	16%
Total	**100%**

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			
94-100 %	A	74-76%	C
90-93 %	A-	70-73%	C-
87-89 %	B+	67-69%	D+
84-86%	B	64-66%	D
80-83%	B-	60-63%	D-
77-79%	C+	0-59%	F

- **Success in this course is depend 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.**

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 replace the missing exam by your final exam grade. 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, please contact your instructor as soon as you know you will miss it, and no later than 24 hours after the exam. You must provide documentations to support the absence.**

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.

RESOURCES AND POLICIES

Waterbury Tutoring Center:

For extra help in this class, please be sure to visit the Waterbury Tutoring Center located in room 207 (https://waterbury.uconn.edu/academics/academic-resources/tutoring-center/). No appointment is necessary.

Late Assignments:

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

Attendance Policy:

Attendance at the lectures will not be checked but it is expected. It is *your responsibility* to know what is going on in class.

Retaining Exams:

You should keep all of your returned exams until you receive your final course grade. You will need these to demonstrate that a grade was incorrectly recorded, should that happen.

Policy on Re-grading of Exams:

(1) If it is given to me immediately following it being returned to you, any problem(s) will re-graded without requiring anything more from you.
(2) If it is given to me prior to the next exam being given, it will be re-graded in a timely manner.
(3) If it is given to me after the next exam being administered, then the exam will be returned to you without any change.

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 (https://lms.uconn.edu/) regularly for class announcements and course materials. Additionally students can view and track grades through HuskyCT.

Email policy:

Any email you send to me must have the subject heading: "**Calculus I**". In the email you must identify yourself (first and last names).

Academic Integrity and Disruption of Academic Process:

I expect the highest standard of academic integrity from my 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. The CSD is located in *Student Services Suite, 2nd Floor* of Waterbury campus. Detailed information regarding the accommodations process is also available on their website, Waterbury-Disability Services 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 my 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 me 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.

OTHER: 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.

Schedule MATH 1131Q: Calculus I Fall 2019

This schedule is tentative and may be modified by the instructor as needed during the semester.

DATE			DATE		LECTURE
M	8/26	Administrative Information, Precalculus Review (Chapter 1)	M	10/21	4.1 & 4.3
W	8/28	2.2, 2.3	W	10/23	4.1 & 4.3
F	8/30	2.3	F	10/25	4.3, 4.2
M	9/2	**Labor Day - No class**	M	10/28	4.4 **(Last day to drop a course)**
W	9/4	2.1, 2.4	W	10/30	4.4
F	9/6	2.5	F	11/1	4.7
M	9/9	2.6 **(Add/Drop ends)**	M	11/4	4.7
W	9/11	2.7	W	11/6	4.9 & 5.4(Indefinite Integrals)
F	9/13	2.8	F	11/8	4.9 & 5.4(Indefinite Integrals)
M	9/16	2.8 & Exam Review	M	11/11	5.1 & 5.2 (Area Problem)
W	**9/18**	**Test 1**	W	11/13	5.1 & 5.2 (Area Problem)
F	9/20	3.1	F	11/15	5.3, 5.4 (Definite Integrals)
M	9/23	3.2, 3.3	M	11/18	5.4 & Exam Review
W	9/25	3.3, 3.4	**W**	**11/20**	**Test 3**
F	9/27	3.4	F	11/22	5.5
M	9/30	3.5	**M**	**11/25**	**Thanksgiving Break - No class**
W	10/2	3.5, 3.6	**W**	**11/27**	**Thanksgiving Break - No class**
F	10/4	3.6	**F**	**11/29**	**Thanksgiving Break - No class**
M	10/7	3.8	M	12/2	5.5, 6.1
W	10/9	3.8	W	12/4	6.1
F	10/11	3.9	F	12/6	Final Exam Review
M	10/14	3.9 & Exam Review	**M**	**12/9**	**Final Exam Week - No class**
W	**10/16**	**Test 2**	**W**	**12/11**	**Final Exam Week - No class**
F	10/18	3.10	**F**	**12/13**	**Final Exam Week - No class**