Math 1131Q Syllabus
Fall 2022

Instructor: Jeffrey Connors
E-mail: jeffrey.connors@uconn.edu
Office: ACD 114C
Office hours: M,W 11 AM - noon, or by appointment. If you need help you should also consider going to the Academic Center in ACD 107. I may also agree to meet online via the "WebEx meeting" link in HuskyCT (set up a time before hand).
Class time and room: M,W 4:40 - 6:20 PM in ACD 106
Text: *Calculus: Early Transcendentals, 8th Edition* by James Stewart. Homework will be managed through the online WebAssign system, which requires the access code that comes with the textbook.

- You can purchase access online with just an eBook through the publisher, Cengage. Click the "WebAssign" link on the left in the course HuskyCT page to get started and look for more information.
- There are two book options at the UConn book store. The more expensive "full text" is only for students who need to eventually take Multivariable Calculus (MATH 2110Q).
- It is NOT recommended to purchase some used book or anything else online except through WebAssign/Cengage. Your purchase needs to cover access to the online resources.

Homework: In HuskyCT, go to the course page and click "WebAssign" on the left side. Assignments are organized by lecture, but all assignments that need to be completed before a certain exam are due at the start of that exam (date and time is shown in the system online). Homework is intended to help prepare for the exams. Late homework would fail to achieve its purpose and is not accepted unless there are mitigating circumstances like hospitilization. In such cases, documentation will be required to request an extension.

- **NOTE:** be sure to use the link in HuskyCT to access WebAssign, especially to register. Otherwise it can cause your account to be associated with the wrong course in some circumstances.

Worksheets: See the schedule below. Material covered during "Lecture n" will be the topic of worksheet problems during class $n+1$. These are collected before you leave class for credit. Make-ups must be discussed BEFORE lecture (email me and explain why you cannot make it).
Calculators: The use of calculators will not be permitted on exams. They may be used to complete Worksheets and homework.

Grade calculation: We begin with the following definitions.

- HW = your homework score for the entire semester.
- WS = your worksheet score for the entire semester.
- E_j = score on exam j, for $j = 1, 2, 3, 4$.

The algorithm is precisely as follows. First, each of the six scores above is computed as a percentage. Next, find the lowest score in the following set: {HW, WS, E_1, E_2, E_3}. In case there is not a unique lowest choice, one must be selected at random to represent the minimum.

Reset the lowest score selected in the previous step to be zero now, then calculate the course grade to be

$$0.2 * (\mathrm{HW} + \mathrm{WS} + \mathrm{E}_1 + \mathrm{E}_2 + \mathrm{E}_3 + \mathrm{E}_4),$$

which is rounded to the nearest whole percentage point. The fourth exam is the "final exam", which will be scheduled during the final exam period (TBD). In other words, your course grade is an equally-weighted average of the highest five scores out of the six defined above, except that you must include your final exam score. The final grade is determined via the classical grading scale using this percentage.

Make-up exams: These will only be available with permission granted prior to the start of the exam. There must be extenuating circumstances to receive permission for a make-up exam.
Final exam rescheduling policy:
Finals for Fall 2022 begin the week of Monday, December 12th. Students are required to be available for their exam and/or complete any assessment during the time stated in the Registrar's Office schedule. If you have a conflict with this time you must visit the Avery Point Student Services Office to discuss the possibility of rescheduling this final. The Office of Student Services REQUIRES advance notice from students who have prior knowledge of a conflict (i.e., bunched finals, religious obligation, legal/medical appointments, etc.) Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the assessment schedule and over-sleeping are not viable reasons for rescheduling a final. If you think that your situation warrants permission to reschedule, please contact the Office of Student Services (Branford House 306) to make an appointment.

Date	Sections	Topics	Notes
Aug. 29	1.1-1.3	Review of functions	
Aug. 31	1.4-1.5	Exponential and logarithmic functions, inverses	Worksheet
Sept. 5			Labor Day - no class
Sept. 7	2.1-2.2	Tangents, velocity and limits of functions	Worksheet
Sept. 12	2.3-2.4	Calculation and precise definition of limits	Worksheet
Sept. 14	2.5-2.6	Continuity, limits at infinity, asymptotes	Worksheet
Sept. 19	1.1-2.6	Review for Exam 1	Worksheet
Sept. 21			**EXAM 1**
Sept. 26	2.7-2.8	Derivatives	
Sept. 28	3.1,3.3	Derivatives of polynomial, trig. and exponential functions	Worksheet
Oct. 3	3.2,3.4	Product, Quotient and Chain Rules	Worksheet
Oct. 5	3.5-3.6	Implicit differentiation, derivatives of logarithmic functions	Worksheet
Oct. 10	3.7-3.8	Rates of change; exponential growth/decay	Worksheet
Oct. 12	2.7-3.8	Review for Exam 2	Worksheet
Oct. 17			**EXAM 2**
Oct. 19	3.9-3.10	Related rates, linear approximations	
Oct. 24	3.11-4.1	Hyperbolic functions, maximum and minimum values	Worksheet
Oct. 26	4.2,4.4	Mean Value Theorem, indeterminant forms, l'Hospital's Rule	Worksheet
Oct. 31	4.3,4.5	Using derivatives in curve sketches	Worksheet
Nov. 2	4.7-4.8	Optimization, Newton's Method	Worksheet
Nov. 7	3.9-4.8	Review for Exam 3	Worksheet
Nov. 9			**EXAM 3**
Nov. 14	4.9-5.1	Antiderivatives, area and distance	
Nov. 16	5.2	Definite integrals	Worksheet
Nov. 21			No class (Thanksgiving)
Nov. 23			No class (Thanksgiving)
Nov. 28	5.3	Fundamental Theorem of Calculus	Worksheet
Nov. 30	5.4	Indefinite integrals, Net Change Theorem	Worksheet
Dec. 5	5.5	Substitution rule	Worksheet
Dec. 7	All	Review for Final Exam	Worksheet
Dec. ?			**FINAL EXAM**