UNIVERSITY OF CONNECTICUT - HARTFORD
COURSE OVERVIEW

COURSE: MATH 1131Q-H73 (11723) Calculus I (Fall 2019)

INSTRUCTOR: Frank Grgach [Frank.Grgach_jr@UCONN.edu]

TEXT: *Calculus: Early Transcendentals* by James Stewart (8th Edition), which is bundled with a WebAssign code for online homework. You have the choice of buying one of two versions of the text, depending on how much calculus you plan to take in the future:

- **If you do NOT plan to take Math 2110** (multivariable calculus), then you should purchase *Single-Variable Calculus: Early Transcendentals* by Stewart (8th Edition).
- **If you plan to take Math 1131, 1132, *and* 2110** (multivariable calculus) then you should purchase *Calculus: Early Transcendentals* by Stewart (8th Edition).

LOCATION: HARTFORD, Room: HTB 219
Mon, Wed 10:10 am – 11:00 am Fri 10:10 am – 11:50 am

EXAMS/GRADE: **All grading will be on a point system. Your performance on the following assessments will determine your semester grade.**

Homework Assignments	Up to 4 points each
Worksheets	Up to 10 points each
Quizzes	Up to 40 points each
Exams	200 points each
FINAL EXAM	200 points

RESCHEDULING FINAL EXAMINATIONS: https://catalog.uconn.edu/academic-regulations/grade-information/#exam-absence

MAKE-UPS: **Make-ups for exams, quizzes and worksheets are only permitted under extraordinary circumstances. You attendance is crucial for success and you are expected to be in class to take each assessment.**

ADVICE: Because all exams will be comprehensive exams covering all of the material, some of it in depth, it will be very important that you do the assigned problems as we go along. If you begin having problems get help immediately - DO NOT WAIT! Waiting until the last minute and cramming may teach you how to do the simple problems but will not give you the opportunity to think about the work and gain the understanding necessary for success with the more difficult exam questions. The assigned problems are a representative sample of the material presented, for a better understanding additional problems should also be completed.

ATTENDANCE: You are expected to attend each class and to take all assessments on their assigned dates. **Only extraordinary circumstances would permit the make-up of a missed quiz or exam.** In the event of illness, email me or phone the office (570-9214) and leave a message.

HOMEWORK: Homework will be assigned "DAILY" and needs to be done "DAILY".
Participate - Assignments will be given out as well as assigned through WebAssign.

CALCULATORS: Calculators, phones, laptops or tablets **CANNOT** be used on any in-class assessements.

PEOPLE WITH DISABILITIES, POLICY STATEMENT: https://policy.uconn.edu/2011/05/24/people-with-disabilities-policy-statement/

POLICY AGAINST DISCRIMINATION, HARASSMENT, and RELATED INTERPERSONAL VIOLENCE: https://policy.uconn.edu/2015/12/29/policy-against-discrimination-harassment-and-related-interpersonal-violence/

ACADEMIC INTEGRITY: Academic dishonesties/misconducts are not tolerated at UCONN. Any indiscretion will result in, but are not limited to, a grade of 0 on the assessment. Please refer to "The Student Code" https://community.uconn.edu/the-student-code-preamble/ ,for additional information and responsibilities. Also refer to the ACADEMIC MISCONDUCT PROCEDURES FOR INSTRUCTORS: https://community.uconn.edu/academic-misconduct-procedure-review/

Class			**Chap/Section**	
#1	Monday	8/26/2019		Ready for Calc
			1.1	Fours Ways to Represent a Function
			1.3	New Functions from Old Functions
#2	Wednesday	8/28/2019		Ready for Calc
			1.4	Exponential Functions
			1.5	Inverse Functions & Logarithms
#3	Friday	8/30/2019	2.1	The Tangent & Velocity Problems
			2.2	The Limit of a Function
#4	Wednesday	9/04/2019	2.3	Calculating Limits Using the Limit Laws
#5	Friday	9/06/2019		***QUIZ***
			2.4	The Precise Definition of a Limit
#6	Monday	9/09/2019	2.5	Continuity
#7	Wednesday	9/11/2019	2.7	Derivatives & Rates of Change
			2.8	The Derivative as a Function
#8	Friday	9/13/2019		***QUIZ***
			3.1	Derivatives of Polynomials & Exponential Functions

Class			Chap/Section	
#9	Monday	9/16/2019	3.2	The Product & Quotient Rule
#10	Wednesday	9/18/2019	3.3	Derivatives of Trigonometric Functions
#11	Friday	9/20/2019		***QUIZ***
			3.4	The Chain Rule
#12	Monday	9/23/2019	3.5	Implicit Differentiation
#13	Wednesday	9/25/2019		Inverse Trig Functions
			3.6	Derivatives of Logarithmic Functions
#14	Friday	9/27/2019		***QUIZ***
#15	Monday	9/30/2019	3.8	Exponential Growth & Decay
#16	Wednesday	10/02/2019	3.9	Related Rates
#17	Friday	10/04/2019		***Mid-Semester Progress Reports***
				QUIZ
			3.10	Linear Approximations & Differentials
#18	Monday	10/07/2019	4.1	Maximum & Minimum Values
			4.2	The Mean Value Theorem
#19	Wednesday	10/09/2019	4.3	How Derivatives Affect the Shape of a Graph
#20	Friday	10/11/2019		***EXAM #1***
#21	Monday	10/14/2019	4.4	Indeterminate Forms & l'Hospitals's Rule
#22	Wednesday	10/16/2019	4.5	Summary of Curve Sketching
#23	Friday	10/18/2019		***QUIZ***
			4.5	Summary of Curve Sketching
#24	Monday	10/21/2019	4.7	Optimization Problems
#25	Wednesday	10/23/2019	4.7	Optimization Problems
#26	Friday	10/25/2019		***QUIZ***
			4.9	Antiderivatives

Class			Chap/Section	
#27	Monday	10/28/2019	4.9 5.1	Antiderivatives Areas & Distances
#28	Wednesday	10/30/2019	5.1	Areas & Distances
#29	Friday	11/01/2019	 5.2	***QUIZ*** The Definite Integral
#30	Monday	11/04/2019	5.2	The Definite Integral
#31	Wednesday	11/06/2019	5.3	The Fundamental Theorem of Calculus
#32	Friday	11/08/2019	 5.3	***QUIZ*** The Fundamental Theorem of Calculus
#33	Monday	11/11/2019	5.5	The Substitution Rule
#34	Wednesday	11/13/2019	5.5	The Substitution Rule
#35	Friday	11/15/2019		***Exam #2***
#36	Monday	11/18/2019	6.1	Areas Between Curves
#37	Wednesday	11/20/2019	6.1 6.2	Areas Between Curves Volume
#38	Friday	11/22/2019	 6.2	***QUIZ*** Volume
November 24 – 30		***Thanksgiving Recess***		
#39	Monday	12/02/2019	6.3	Volumes by Cylindrical Shells
#40	Wednesday	12/04/2019	6.3 8.1	Volumes by Cylindrical Shells Arc Length
#41	Friday	12/06/2019	***WRAP UP & REVIEW***	

Mon – Sun Dec 9 – Dec 15 Final Exams

The date for the Final Exam will be determined once the Final Exam Schedule is Released