HNRS 2413.001 - Honors Calculus I, Fall 2020

MWF 10:30 - 11:45 am (Face-to-Face Format)
RBN 4019

Instructor:	Dr. Maddie Dawsey
Office:	RBN 4048
Office Hours:	TTh 8:30 - 10:00 am and W 2:30 - 3:30 pm (or by appointment) Office Hours and appointments will be in person AND/OR virtual (over Zoom)
Email:	mdawsey@uttyler.edu (I will NOT receive emails to mdawsey@patriots.uttyler.edu)
Website:	All course materials will be posted on Canvas

Textbook

Stewart, *Essential Calculus, Early Transcendentals*, 2/e (ISBN 978-1-133-11228-0)

Course Description

A study of functions, limits, continuity, differentiation of algebraic and trigonometric functions, applications of the derivative, definite and indefinite integrals with applications.

Course Prerequisites

C or better in MATH 2312 (or equivalent); C or better in MATH 1316 (or equivalent); or satisfactory score on ACT, SAT, THEA, or departmental trigonometry test.

Student Learning Outcomes

Upon completion of this course, students should be able to do the following:

- Discuss solutions to the tangent and area problems involving calculus concepts of limits, derivatives, and integrals.
- Use graphs of algebraic and transcendental functions to determine limits, continuity, and differentiability at a point.
- Determine whether a function is continuous and/or differentiable at a point using limits.
- Apply differentiation rules to differentiate algebraic and transcendental functions.
- Choose appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.
- Compute definite integrals using the Fundamental Theorem of Calculus.
- Recognize and discuss the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.

Important Dates

September 4th	Census Date
September 7th	Labor Day Holiday - no class
November 2nd	Withdrawal Deadline
November 23rd - 28th	Thanksgiving Break - no class
November 30th and December 1st - 4th	Classes Online
December 7th	Study Day

Grading Scheme

Your final letter grade will be determined by the following grading scheme:

Quizzes	**15%**
Exams	**48%**
Projects	**12%**
Cumulative Final Exam	**25%**

A	90 - 100
B	80 - 89.99
C	70 - 79.99
D	60 - 69.99
F	0 - 59.99

Attendance
Students are expected to attend every lecture and are responsible for any announcements made during lecture. The course moves quickly, and any absence will be detrimental to the student's performance. Any student who is uncomfortable coming to class in person will have the option to attend virtually through Zoom.

Homework
Homework problems will be assigned and posted on Canvas after each class. They will not be turned in; instead, their purpose is to help you learn the material and prepare for quizzes and exams.

Quizzes
There will be 9 quizzes during the semester. Quizzes will be approximately 10 minutes long. Your lowest quiz grade will be dropped at the end of the semester. The tentative quiz schedule is the following:

Quiz 1	**Monday, August 31st, 2020**
Quiz 2	**Wednesday, September 9th, 2020**
Quiz 3	**Wednesday, September 23rd, 2020**
Quiz 4	**Monday, September 28th, 2020**
Quiz 5	**Monday, October 12th, 2020**
Quiz 6	**Wednesday, October 21st, 2020**
Quiz 7	**Friday, November 6th, 2020**
Quiz 8	**Friday, November 13th, 2020**
Quiz 9	**Wednesday, December 2nd, 2020**

Make-up quizzes will not be offered if the student fails to notify the professor before the scheduled quiz is missed. If you know that you will have to miss a quiz for a legitimate reason (medical emergency, athletic commitment, religious observance, etc.), you must notify the professor in advance to schedule a make-up quiz before the following class. Absolutely no make-up quizzes will be given after the class following a scheduled quiz. Missed quizzes that are not made up before the following class will earn a grade of zero.

Exams
There will be four midterm exams during the semester and an online cumulative final exam at the end of the semester. Each midterm exam will be worth 12% of the final course grade, and the final exam will be worth 25%. The tentative exam schedule is the following:

Exam 1	**Monday, September 14th, 2020**
Exam 2	**Friday, October 2nd, 2020**
Exam 3	**Friday, October 20th, 2020**
Exam 4	**Wednesday, November 18th, 2020**
Cumulative Final Exam	**Friday, December 11th, 2020**

Make-up exams will not be offered if the student fails to notify the professor before the scheduled exam is missed. If you know that you will have to miss an exam for a legitimate reason (medical emergency, athletic commitment, religious observance, etc.), you must notify the professor in advance to schedule a make-up exam. Absolutely no make-up exams will be given more than three days after the missed exam. Missed exams that are not made up within three days will earn a grade of zero.

Projects
There will be 4 projects assigned throughout the semester. These projects may involve detailed essay-writing assignments and/or applications of what we've learned to real-life problems. You will have 1 week to complete each project, and the due dates will be posted on Canvas. Projects will not be accepted after the due dates. If you know that you will have to miss class on the day that a project is due, then it is your responsibility to turn in the project early. Projects that are turned in late or not turned in at all will earn a grade of zero.

Technology
Students will be required to have a device capable of internet access and access to Canvas (for all course materials) and Zoom (for lectures and office hours as needed).

Recording of Lectures
All lectures (including student questions/responses) will be recorded and posted on Canvas. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

Student Resources
The SI (Supplemental Instruction) Leader for our class will be announced in the first week or two of class, and their schedule will be posted on Canvas.

The Mathematics Learning Center (MLC), RBN 4021, is an open access computer lab for math students. There are tutors on duty for several hours each day to assist students who are enrolled in early-career courses. See www.uttyler.edu/math/mlc.php for the MLC tutoring schedule.

The UT Tyler PASS Tutoring Center, located in LIB 401, also offers free tutoring for early-career courses and has walk-in (Zoom) hours. There are also PASS tutors specifically for Calculus I. See www.uttyler.edu/tutoring for the PASS tutoring schedule and walk-in hours.

Grade Replacement
If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by January 27th, 2019. Failure to file an intent to use grade forgiveness will result in both the original and repeated grade being used to calculate your overall grade point average. A student may receive grade forgiveness (grade replacement) for up to three course repeats during his/her career at UT Tyler.

Honor Code
Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Accessibility
The Department of Mathematics at UT Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. Any students needing special accommodations due to a disability are encouraged to visit https://hood.accessiblelearning.com/UTTyler and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you. For more information, visit http://www.uttyler.edu/disabilityservices. Please see the professor to discuss arrangements.

Covid-19 Information
Students are required to wear face masks covering their nose and mouth and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by Procedures for Fall 2020 Return to Normal Operations. The UT Tyler community of Patriots views adoption of these practices consistent with its honor code and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class, should stay at home, and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, call (903) 566-7079, or email saroffice@uttyler.edu.