McLennan COMMUNITY COLLEGE

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Calculus I

MATH - 2413 – 10

11:10am-01:00pm MW, Math207

Yumei Wu

NOTE: This is a 16-week F2F course

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html on any changes to these guidelines.

Greetings College Algebra Students! On the next pages you will find the syllabus. Please read it carefully. Try to complete the steps below by 4:00pm Friday Aug.19, 2022

Step	Action
1.	Ensure that you correspond with me using your MCC email address. Any trouble to access, please contact MCC tech support 254-299-9077 or helpdesk@mclennan.edu
2.	Login in www.mclennan.edu, access https://brightspace.mclennan.edu/d2l/login, select your course, get familiar with the links listed on the top, such as announcements, content, more.
2.	Find To-Dos in Announcement weekly, access Content, where you shall visit and work all the time for homework, grades, quizzes, videos, and more. Discussion, you work on the signed discussion. Class list, where to find your classmates. Assessment, and more.
3	Send an email from your mcc email to my email address ywu@mclennan.edu with the following: Subject: 2413 (always with this subject during the whole semester) 1. Watched the orientation video in the announcement in https://brightspace.mclennan.edu/d2l/login . 2. Introduced yourself on the discussion tab. 3. Understand that the due dates do not mean you should start the assignments on that day but complete them by then. 4. Understand the build in opportunities for managing your grade-such as taking the chapter quiz twice, working homework problems as much as needed until you make 100%, but you must complete up to at least 70% the assignment to access the next assignment. 5. Know you will use the Zoom program to complete your video conference and that this requires WiFi access and a computer with camera and mic or a smart phone or tablet or a campus visit. 6. Completed the Online Orientation found in Brightspace-Content-MyLab Math-MyLab Math All Assignments, where all your homework locates. 7. Zoom meeting ID: 2542998809 8. Begun Lesson by clicking on the Lesson tab in https://brightspace.mclennan.edu/d2l/login

Course Description:
Examines the concept of limit and its relationship to differential and integral calculus. Introduces the student to topics that may include differentiation of algebraic and trigonometric functions, optimization, differentials, antiderivatives, definite integrals, numerical integration, and their applications to problem solving. Graphing calculator required.

Prerequisites and/or Corequisites:
MATH 2412 or MATH 1314 and MATH 1316, or consent of division chair. Semester Hours 4 (4 lec)

Course Notes and Instructor Recommendations:
Math 2413 in a F2F format involves optional meetings during office hours. Class notes, lecture videos and discussions will be available in Brightspace. Videos are done by both publisher and instructor lecture videos. Online homework assignments as well as videos and ancillaries will be located at www.mymathlab.com . and the course ID is wu26420
If you need instruction to register in Pearson mymathlab, please use:
https://portal.mypearson.com/course-home/handout/wu26420/Student_Registration_Handout_wu26420.pdf

There are numerous other learning aids available also in Content, such as, PowerPoint slides for each section, e-book, and some important tips for using graphing calculator will be located at Content https://brightspace.mclennan.edu/d2l/login. I shall constantly keep you informed through Announcement in https://brightspace.mclennan.edu/d2l/login, such as To-Dos list weekly.

Instructor Information:
Instructor Name: Yumei Wu
MCC E-mail: ywu@mclennan.edu
Office telephone number: 254-299-8809
Office Location: Mathematics Building, Math212
Office Hours: Monday Math212 & Wednesday at LTC 321, 2:00pm-3:30pm or via Zoom. Other time is possible by making appointments.

Zoom meeting ID: 2542998809

https://mclennan.zoom.us/j/2542998809 or

click here to join me in the meeting

Required Text & Materials:

You register in MyMathLab by using the link: https://portal.mypearson.com/course-home/handout/wu26420/Student_Registration_Handout_wu26420.pdf . Pay attention, if you only take Calculus I, you should use the 18-weeks access. If you plan to go on with Calculus II or III next semester, you should use the 24-weeks access. Once you have registered in my class, you are given the access of e-book. No hard copy is needed to our class. You may download the graphic calculator by using the link given in Content in Brightspace.

Title: 14th Edition, Thomas' Calculus: Early Transcendentals
Publisher: Pearson

TI 83/84 Graphing Calculator Required

MCC Bookstore Website: http://www.mclennan.edu/bookstore/

Methods of Teaching and Learning:

The following methods for teaching and learning will be used: F2F lecture on Monday and Wednesday each week, you shall have online homework and quizzes for each section, your three major Tests and Final Test will be in the classroom, you will be informed ahead. A three pronged approach is used in this course. For each instructional section, Chapters from e-Book, a blank lecture note or PowerPoint, complete lecture notes and video recording of the lecture notes worked will all be available on the website companion to this class in https://brightspace.mclennan.edu/d2l/login. Students will be instructed on how to use the zoom program from their smart phone, tablet, computer with camera/mic, or on campus using the technology equipment available for student use at MCC.

Students will be required to read section or chapter and to view videos from https://brightspace.mclennan.edu/d2l/login for further review and learning enhancement prior to the homework. All students will be required to submit homework on MyMathLab (must score at least 70% to receive credit and to continue the next assignment). All homework of sections are due 12/5/2022, at 11:59pm, but the quiz for the sections only lasts for a week, which means you do need to reach 70% for the section to access the quiz. Missed quiz has zero. Reviews are provided for exams, but they are optional. There is no extra credit. Active participation in the course (asking questions, answering questions based on reading and lecture through internet) leads to improved test scores, rendering extra credit unnecessary.

Course Objectives and/or Competencies:
Upon completion of the course, the student will be able to:
1. Develop solutions for tangent and area problems using the concepts of limits, derivatives, and integrals.
2. Draw graphs of algebraic and transcendental functions considering limits, continuity, and Differentiability at a point.
3. Determine whether a function is continuous and/or differentiable at a point using limits.
4. Use differentiation rules to differentiate algebraic and transcendental functions.
5. Identify appropriate calculus concepts and techniques to provide mathematical models of
Real-world situations and determine solutions to applied problems.
6. Evaluate definite integrals using the Fundamental Theorem of Calculus.
7. Articulate the relationship between derivatives and integrals using the Fundamental Theorem of Calculus.

To be successful in this course, I strongly urge you to do the following each week:
1. Go to Brightspace, click on the Component you are working on.
2. Follow the steps in the Component Checklist in the order they appear. Do not try to skip around or work out of order. The course is designed to help you move through the Material as efficiently as possible. Pay attention to the calendar below. Begin each week by opening To-Dos list for the week**.**
Be sure to check off items as you complete them. (this unlocks the next checklist)
Work through the course in the order items are presented in the Checklists.
Remember Due Dates are NOT Start Dates. Each component represents what would Normally be assigned for one Week during a long semester. It is always easier to keep up than to catch up. Consequently, you may want to work ahead to build in a buffer for when “life happens”, as it usually does, at the most inopportune time.

Course Outline or Schedule

Week	**Lessons/Exams Class Time and Zoom synchronous classes:**

Week #1 Quiz 1	**Sec 2.1 Rates of Change and Tangents to Curves** **Sec 2.2 Limit of a Function and Limit Laws** **Sec 2.3 The Precise Definition of a Limit**
Week #2 Quiz 2	**Sec 2.4 One-Sided Limits** **Sec 2.5 Continuity** **Sec 2.6 Limits Involving Infinity: Asymptotes of Graphs**
Week #3 Test 1	**Review for Chapter 2 Test 1** **Sec 3.1 Tangent Lines and the Derivative at a Point** **Sec 3.2 The Derivative as a Function** **Sec 3.3 Differentiation Rules** **Test 1 over Chapter 2 in person**
Week #4 Quiz 3 & Quiz 4	**Sec 3.4 The Derivative as a Rate of Change** **Sec 3.5 Derivatives of Trigonometric Function**
Week #5 Quiz 5	**Sec 3.6 The Chain Rule** **Sec 3.7 Implicit Differentiation** **Sec 3.8 Derivatives of Inverse Functions & Logarithms**
Week #6 Quiz 6	**Sec 3.9 Inverse Trigonometric Functions** **Sec 3.10 Related rates** **Sec 3.11 Linearization and Differentials**
Week #7	Review Test 2 + Test 2
Week #8 Quiz 7	**Sec 4.1 Extreme Values of Functions on Closed Intervals** **Sec 4.2 The Mean Value Theorem** **Sec 4.3 Monotonic Functions & the First Derivative Test** **Sec 4.4 Concavity and Curve Sketching**
Week #9 Quiz 8	**Sec 5.5 Indefinite Integrals and the Substitution Method** **Sec 5.6 Definite Integral Substitutions and Area Between Two Curves**
Week #10 Quiz 9	**Sec 4.8 Antiderivatives** Test 3 + Review T3
Week #11	**Sec 5.1 Area and Estimating with Finite Sums**

Quiz 10	**Sec 5.2 Sigma Notations and Limits of Finite Sums**
Week #12 Quiz 11	**Sec 5.3 The Definite Integral** **Sec 5.4 The Fundamental Theorem of Calculus**
Week #13 Quiz 12	**Sec 5.5 Indefinite Integrals and the Substitution Method** **Sec 5.6 Definite Integral Substitutions and Area Between Two Curves**
Week #14	**Test 4 over Chapter 5** **Happy Thanksgiving Holiday**
Week #15	Final Test Review
Week #16	Final Test on December 5th.

Or using the following table for the schedule:

Week Due Date	Assignments Due by 11:59pm CST	Week Due Date	Assignments Due by 11:59pm CST
Week 1 8/22	Sec 2.1-2.3 Quiz 1	Week 9 10/17	Sec 4.5-4.6 Quiz 8
Week 2 8/29	Sec 2.4-2.6 Quiz 2	Week 10 10/24	Sec 4.8 Quiz 9 Test 3
Week 3 9/5	Test 1 & Sec 3.1-3.3	Week 11 10/31	Sec 5.1-5.2 Quiz 10
Week 4 9/12	Quiz 3 Sec 3.4-3.5 Quiz 4	Week 12 11/7	Sec 5.3-5.4 Quiz 11
Week 5 9/19	Sec 3.6-3.8 Quiz 5	Week 13 11/14	Sec 5.5-5.6 Quiz 12
Week 6 9/26	Sec 3.9-3.11 Quiz 6	Week 14 11/21	Review T4 & Test 4
Week 7 10/3	Review T2 & Test 2	Week 15 11/28	Final Test Review Ch.2-5
Week 8 10/10	Sec 4.1-4.4 Quiz 7	Week 16 12/5	Final Test 12/5 /22

Course Grading Information:

Our grading is the following: Homework 25%, Quizzes 15%, Tests (Four major tests and the Final test) 60%. Total of all the grades is 100%.

A: +90, B: 80-89, C: 70-79, D: 60-69, F: 59 or less

Having someone else do your online homework assignment and cheating on a test are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action.

Late Work, Attendance, and Make Up Work Policies:

Due dates for online homework will be clearly communicated. They all are due on December 5th, 11:59pm. But you must complete at least 70% of the section to access the next section. Otherwise, it is locked to you. Each Quiz lasts for three days and is announced a week earlier and is locked until you complete the chapter homework up to 70%. For each chapter we have one test, so totally three major tests. There are no makeup tests. A missed test will be recorded as a 0 and will be dropped by the end of the semester. If a student is aware of a future absence on a test date, they may ask to arrange to take the test early.

Attendance is taken in the classroom each class meeting. If you miss more than 25% of the classes, you may be dropped from the course. The attendance is checked each class.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor. Students should demonstrate an attitude that seeks to take full advantage of the education opportunity. For more details of College Conduct Policy, see the Highlander Student Guide.

Having someone else do your online homework assignment and quizzes are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action. Students should keep careful notes of all work done in class and have them available for the instructor's review when requested.

*** Click Here for the MCC Academic Integrity Statement**

(**www.mclennan.edu/academic-integrity**)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

*** Click Here for the MCC Attendance/Absences Policy**
(https://www.mclennan.edu/highlander-guide/policies.html)
Click on the link above for the college policies on attendance and absences. Regular and punctual attendance is expected of all students, and each instructor will maintain a complete record of attendance for the entire length of each course, including online and hybrid courses. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades. In the case of online and hybrid courses, attendance will be determined in terms of participation, as described in the course syllabus.

Updated 06/08/2022

McLennan COMMUNITY COLLEGE

ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit https://www.mclennan.edu/disability/ .

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu
254-299-8122
Room 319, Student Services Center

Title IX:

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting https://www.lighthouse-services.com/mclennan/incidentLandingPageV2-MCC.asp.

Go to McLennan's Title IX webpage at https://www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you

or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at http://www.mclennan.edu/campus-resource-guide/.

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:

Go to https://www.mclennan.edu/academic-integrity/ for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy regarding college email, which can be found at https://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to https://www.mclennan.edu/student-email/.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- Email Setup for iPhones and iPads
- Email Setup for Androids

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to MCC's Tech Support Cheat Sheet or email helpdesk@mclennan.edu.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.