

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course Number: MATH 1312 CRN 11223

Course Title: Calculus 2

Credit Hrs: 3

Term: Fall 2020

Course Meetings & Location: Online via WebAssign and Blackboard

Prerequisite Courses: C or better in Math 1411. ("S" is acceptable)

Instructor: Dr. Maria Pia Beccar Varela

Office Location: Online Only

Contact Info: E-mail address: mpvarela@utep.edu
Math Department: mathdept@utep.edu

Office Hrs: Will be offered in Blackboard and students will be able to ask questions by using the 'Ask my teacher' feature in WebAssign.

Textbook: Required: Calculus 2 by Larson, UTEP last edition or Calculus by Larson 11th edition (available as e-book and hardcover)

Technology/Materials Suggested: TI-83 or TI-84 Calculator

Required: Webassign account

Webassign: WebAssign is an online Course Management System of Cengage, the publisher of our text. You must have reliable internet in order to take an online course. You will use the instructions below to access and register for WebAssign. You will have a two-week free trial so that you may access your coursework immediately.

Instructions to access and register for WebAssign:

To enter your course on WebAssign on August 24, go to www.webassign.net and follow these steps.

- 1) Click on "Enter Class Key"
- 2) Enter the class key given by your instructor: utep XXXX XXXX as shown below:

utep	XXXX	XXXX
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- 3) Verify the section number and instructor name, then enter your information. Please make sure that you use your miners email and that you remember the password that you create.

- 4) The next time you log in, click on “Log In” and enter your miners email and the password that you created.

You are required to purchase an access code to log in as soon as possible and definitely before this grace period ends. If you purchased a new book from the UTEP bookstore, the code should have come with it. When entering the code, enter all the words and characters in the boxes appropriately.

Course Objectives (Learning Outcomes): Students are expected to have a clear understanding of the following concepts and techniques:

1. Use integration to find the area between curves, volumes, center of mass, and average value of a function among other applications.
2. Evaluate integrals by using integration by parts, trigonometric substitutions, or change of variable.
3. Evaluate rational functions' integrals by the method of partial fractions
4. Recognize improper integrals, their convergence and whenever it is possible, evaluate them.
5. Sequences: convergence of sequences and limits.
6. Series: determine the ratio of convergence, study convergence by using comparison, p-series and alternating series tests.
7. Interval of convergence for power series, apply Taylor's theorem to find polynomial approximations for functions.

Contents: Chapter 7 - Applications of Integration. Chapter 8 - Integration Techniques, L'Hopital's rule. Chapter 9 - Infinite Series, Taylor expansions.

Activities and Assignments: You will find all assignments on www.webassign.net. Please use Mozilla Firefox, Google Chrome, or Safari since WebAssign works best with these browsers. All work, including homework, quizzes, and exams, will take place through WebAssign.

Two exams and a comprehensive final exam will be given.

Course Schedule: A comprehensive course schedule is attached to this syllabus. Semester highlights are included.

- August 24 – Classes Begin
- September 9 – Census Day (Last day to drop without a W)
- October 30 – Drop Day (Last day to drop with a W)
- December 4 – Dead day
- December 8 Final Exam

Grading Policy: You will be graded on homework, quizzes, exams, and a final exam

- 10% Webassign Homework
- 15% Webassign Quizzes
- 20% Exam I
- 20% Exam II
- 35% Final Exam

Assessment of Course Objectives: You will have course PowerPoint and video access through the Resources section of WebAssign. All homework and quizzes will be completed on WebAssign. The password for all quizzes (Quizzes are timed at one and a half hours each) is the word: **ready**. The exams are also timed, but at two hours each. There will be 6 questions on each of the two exams. To review for the exam, a practice exam will be available. The exams will be available for a 24-hour period on the date specified. The practice exam will count as a homework grade. The exam password for exams 1 and 2 is the word: **ready**

You will have a comprehensive final exam. This exam will be available for a 48-hour period according to the class calendar. There will be 8 questions on the final exam. Your final exam will have a time limit of two hours and forty-five minutes (165 minutes) and will have a password of: **ready**.

For all timed assignments, the clock begins once you type the password. The clock will not stop for any reason, not even if you log

out. For this reason, it is important to check for any updates on your computer prior to beginning the timed assignments.

Homework/Quiz Policies:

Homework Assignment Settings: Each question has 5 attempts. You will be able to see the answer to the problem you just submitted. I recommend you get help after the 3rd incorrect submission rather than waiting till you're out of attempts to get help.

Quiz Settings: Each quiz consists of questions from the sections indicated in parentheses. The quiz is password protected and timed. You will have 90 minutes to complete the quiz from the time you type in the password: **ready**. Each question has two attempts and will not randomize after the first submission. To ensure you are successful, make sure the internet connection is stable, you are ready to focus on the quiz for the next 90 minutes, and you have given yourself enough time before the due date. If you choose to start a quiz less than 90 minutes before the due date, the quiz will conclude at the due date and your answers will be auto-submitted.

Make-up Policy: Homework: An automatic homework extension can be requested within 10 days after the due date. The new due date will be 48 hours from the time the extension is requested. Note, this means that **time due** will also change. There will be no penalty applied to problems submitted after the original due date.

Quiz: There are no automatic extensions for quizzes.

If you feel like you have some extenuating circumstance, or have an excused absence that will keep you from completing the assignment or quiz in a timely manner, please contact me right away and be prepared to show supporting documentation.

University Sponsored Events: (conferences, student athletes, etc...)
The student needs to inform me of any traveling conflicts before they leave and make adequate arrangements to make up the missed material with one week of returning. Failure to do so, will result in the forfeiture of points.

Exam: A make-up exam will only be given in extraordinary circumstances (severe illness, accident), and with appropriate documentation (e.g. doctor's note).

Attendance Policy: You are expected to work toward completion of the course assignment daily. You are expected to check Blackboard and your miners email regularly for announcements as well as the WebAssign Announcement section.

Academic Integrity Policy: The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Each student is responsible for notice of and compliance with the provisions of the Regents'

Rules and Regulations, which are available for inspection electronically at <https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations>.

All students are expected and required to obey the law, to comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

Civility Statement: All correspondence with your instructor and other students should be conducted in an appropriate manner.

Disability Statement: If you need classroom accommodations for your success, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website <https://www.utep.edu/student-affairs/cass/>

The student is responsible for informing me of the accommodations needed and will be responsible for proactive actions in regards to having accommodations met.

Military Statement: If you are a military student with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact your instructor as soon as possible.

Tutoring: The MaRCS tutoring center offers free tutoring, click here for more information: <https://www.utep.edu/science/math/marcs/>. There are several useful features of WebAssign designed to give extra help. Please also make use of the instructor's office hours.

Websites: WebAssign, www.webassign.net.

Class Procedures

We will use WebAssign primarily for this course. Blackboard will be used for additional instructor resources.

1. On the first day of class, August 24th, you must use the WebAssign Class Key provided by your instructor to create your account on WebAssign and start working on your assignments. (See attendance policy.)
2. The first assignment to complete is: **Getting Started with WebAssign – Calculus**. This assignment details how to enter your answers on WebAssign.
3. Once you complete that first assignment, I suggest you follow the course calendar to work on the rest of the assignments daily. The homework is designed to help you learn the material with 5 attempts at each problem. The quizzes are designed to help you test your knowledge of the material in a limited time frame. The exams are a major portion of your grade so be sure to log on and complete your exams during the times they are open.
4. The quizzes are timed at 90 minutes each. Once you click on the quiz, you will have 90 minutes to finish it. Once you start the quiz, the timer begins and keeps going even if you log out, so be sure that you have an uninterrupted 90 minutes before you click on the quiz. The password for every quiz is the word **ready**.
5. Each of the two semester exams are timed exams. Once you click on the exam, you will have 2 hours to finish 6 questions. Once you start the exam, the timer begins and keeps going even if you log out, so be sure that you have an uninterrupted two hours before you click on the exam. The password for every main exam is the word **ready**.
6. The final exam is also a timed exam. Once you click on the final exam you will have 2 hours and 45 minutes to finish 8 questions. Once you start, the timer begins and keeps going even if you log out, so be sure that you have an uninterrupted two hours and forty-five minutes before you click on the exam. The password for your comprehensive final exam is the word **ready**.

7. It is essential that you try to keep up with the calendar that accompanies the syllabus. We cover several sections each week. There are no extensions on quizzes or exams without a documented reason, so you need to keep up on the homework so that you can be successful on the exams.
8. You can get extensions for the homework assignments. You have ten days to request the extension, but once you have requested it you only have two days from the time you accepted the extension to complete the assignment. Note, the time due will not necessarily be 11:59PM. In order to request an extension for a homework assignment, the deadline had to pass. Click on Past Assignments and then click on "Ask for Extension" on the assignment you wish to extend. If you view the answer key first, the system will not let you request the extension. Homework extensions come with no penalty, however the best thing to do is to get your work done on time. If you rely too much on taking extensions, you will get too far behind and not be prepared for quizzes and exams when they come. You cannot ask for extensions after the last day of class.
9. **Resources:** You can click on resources at the bottom of your WebAssign homepage and you will be able to access PowerPoint lectures from the publisher as well as the Cengage lecture videos for each section that we cover. These are great built in resources to add to what your instructor provides.

I hope this will help to get you started in the course. You should be able to start working on the WebAssign assignments beginning Monday, August 24th. Please log in on August 24th and get started on the course.

Please let me know if you have any questions. Good luck in the course!

Dr. Maria Pia Beccar Varela