

THE UNIVERSITY OF TEXAS AT EL PASO

COLLEGE OF SCIENCE

Department of Mathematical Sciences

Course #:	MATH 1312 002 (CRN 11220)
Course Title:	Calculus II
Credit Hrs:	3
Term:	Fall 2020
Course Meetings & Location:	MW 9:00 - 10:20, Virtual class meetings through Zoom
Prerequisite Courses:	MATH 1411
Course Fee (if applicable)	None
Instructor:	Dr. Son-Young Yi
Office Location:	Bell Hall 218
Contact Info:	E-mail syi@utep.edu Phone (915) 747-6864
Virtual Office Hours:	The office hours will be held virtually on MW: 13:30 ~ 14:30 via Zoom.
Textbook(s), Materials:	Calculus, 11th Edition, by Larson and Edwards, Brooks/Cole Cengage Learning, 2017. Note that an electronic version of the book will be available through WebAssign. Use the class key “utep 8240 0003”.
Course Objectives (Learning Outcomes):	This course is the second part of the calculus sequence. In Calculus I, you were introduced to the three fundamental notions upon which calculus is built: limits, derivatives, and integrals. Our main objectives of this course are 1. to deepen the comprehension of these notions through conceptual discussions and the investigation of many problems and applications. 2. to master more advanced methods and techniques, and apply them to the solution of a variety of problems.
Course Activities/Assignments:	Homework: Homework problems will be published on Blackboard. You are strongly encouraged to do your homework, but they will not be collected for credits. Quizzes: There will be weekly quizzes except for the weeks of exams. The quizzes will be available in Gradescope (You can find a link to Gradescope in Blackboard), In general, quizzes will become available from 9 am on Thursday until 11:59 pm on Sunday. You can take the quiz at your convenience during this time frame, but once you start it, you will have to finish it in one sitting. You need to prepare a couple of blank sheets of paper and a camera to take pictures of your answers. No make-up quizzes will be allowed. However, the two lowest quiz scores will be dropped at the end of the semester.

Course Schedule:

8/24: Course introduction
 Sec. 8.1 Basic integration rules
8/26: Sec. 8.2 Integration by parts
8/31: Sec. 8.3 Trigonometric integrals
9/02: Sec. 8.4 Trigonometric substitution
9/07: **No class** (Labor Day Holiday)
9/09: Sec. 8.5 Partial fractions
9/14: Sec. 8.7 Indeterminate forms and L'Hopital's rule
9/16: Sec. 8.8 Improper integrals
9/21: Review for the Midterm 1
9/23: **Midterm 1**
9/28: Sec. 7.1 Area of a region between two curves
9/30: Sec. 7.2 Volume: the disk method
10/05: Sec. 7.3: Volume: the shell method
10/07: Sec. 7.4: Arch length and surfaces of revolution
10/12: Sec. 7.5: Work
10/14: Sec. 9.1 Sequences
10/19: Sec. 9.2 Series and Convergence
10/21: Sec. 9.3 The integral test and p-series
10/26: Review for the Midterm 2
10/28: **Midterm 2**
10/30: **Fall Drop/Withdrawal Deadline**
11/02: Sec. 9.4 Comparison of series
11/04: Sec. 9.5 Alternating series
11/09: Sec. 9.6 The ratio and root tests
11/11: Sec. 9.7 Taylor polynomials and approximations
11/16: Sec. 9.8 Power series
11/18: Sec. 9.9 Representation of functions by power series
11/23: Sec. 9.10 Taylor and MacLaurin series
11/25: No class
12/30: Chapter 9 review
12/02: Review for the final exam
12/09: **Final exam (10:00 am–12:45 pm)**

Assessment of Course Objectives:

The final grade will be based on quizzes, two midterm exams, and a final exam. The exams will be take-home exams using Respondus Lockdown Browser and Respondus Monitor inside of Blackboard. No notes or textbook materials are permitted during the test. The following dates are tentative exam dates. Please, mark your calendar.

Midterm 1: Wednesday, Sept. 23, 9:00 am-10:30 am

Midterm 2: Wednesday, Oct. 28, 9:00 am-10:30 am

Final exam: Wednesday, Dec.09, 10:00 am-12:45pm.

Grading Policy:	<p>Quizzes: 20%, Midterm exams: 25% each, Final exam: 30%</p> <p>Note: A grade of Incomplete will be given only in extraordinary circumstances confined to a limited event. If the student has missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.</p>
Make-up Policy:	<p>Make-up exam will be given only in the case of a documented emergency (e.g. hospitalization, immediate family member's funeral). It is important that you reach out to me in advance if at all possible and explain with proper documentation.</p>
Test proctoring software	<p>The exams will make use of Respondus Lockdown Browser and Respondus Monitor inside of Blackboard to promote academic integrity. You are encouraged to learn more about how to use these programs prior to the first midterm exam.</p> <p>Please, review the following guidelines:</p> <ul style="list-style-type: none"> • A reliable internet connection is essential to completing the exam. If you must go to a location to take the exam (such as the library), be sure to follow their health and safety requirements. • Respondus Lockdown Browser will require that all internet tabs are closed prior to the start of the test. • Respondus Monitor requires a webcam and microphone. • You will be required to show the webcam your student ID prior to the start of the test. • Your face should be completely visible during the test. Blocking the camera will disable the test. • No notes or textbook materials are permitted during the test. Respondus Monitor requires you to take a video of your surrounding area (desk, chair, walls, etc). • You should not have any communications with other people and/or leave and return to the area during the test.
Alternating means of submitting work in case of technical issues:	<p>I strongly suggest that you submit your take-home quizzes with plenty of time to spare in the event that you have a technical issue with Blackboard, network, or your computer. If you are experiencing difficulties submitting your exam, you can email me your files before the exam end time as a last resort.</p>
Attendance Policy:	<p>Students are expected to participate in scheduled Zoom sessions with a webcam and microphone. The sessions will be recorded and provided so that they can be reviewed at a later time. Students should not record the sessions and post them to any sites outside of Blackboard.</p>

Academic Integrity Policy:

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

Course Drop Policy:

The UTEP Fall 2020 drop deadline is **Oct. 30, 2020**. The College of Science will remain aligned with the University and not approve any drop requests after that date.

Accommodation Policy:

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services \(CASS\)](#). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the [CASS portal](#).