

UNIVERSITY OF TEXAS AT EL PASO  
COLLEGE OF SCIENCES  
DEPARTMENT OF MATHEMATICS

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Course Number: MATH 1312 CRN 11837  
Course Title : Calculus II  
Location: 11:30 - 12:20 MWF Miners Hall 301  
Credit Hrs: 3.0  
Term : Fall 2014  
Prerequisite Course: MATH 1312  
Course Fee (if applicable): None  
Instructor: Dr. Eduardo Quinonez-Rico  
Office Locations: Burges Hall 311  
Contact Information:  
Phone: 747-8752  
E-mail address: equinonez@utep.edu  
Office Hours: MWF 09:30 - 12:30 PM or by appointment.  
Textbook and Materials: Calculus by Larson and Edwards, 10th Edition.

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COURSE OBJECTIVES

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The main objectives of Calculus II include teaching the students the basic techniques of integration for functions of one variable, and introduce to them the notion of infinite series and their convergence and divergence criteria, and how they can be used in approximation techniques, as well as many applications of the integral to physical problems such as computing areas, surfaces and volumes. By the end of the course, the students should be well prepared to take more advanced courses in Math, such as differential equations, as well as be able to apply their knowledge to solve practical problems they encounter in physical sciences and engineering. At the end of this course, students will be able to:

- (a) Learn basic properties of the Riemman Integral.
  - (b) Learn find volumes and areas of surfaces.
  - (c) Learn to apply different integrations techniques.
  - (d) Learn to apply integrals to practical problems.
  - (e) Learn to manipulate functions as power series.
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TOPICS

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- (1) Applications of the Riemann Integral.
  - (2) Integration Techniques and L'Hopital's Rule and Improper Integrals.
  - (3) Infinite Series and Power Series.
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GRADING POLICY

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The course grade will be distributed as follows:

Homework	15%
Three Partial Exams	20%
Final Exam	25%
Total	100%

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- (1) **HOMEWORK:** Homework is essential for the successful completion of the course. At the end of each session, there will be assignments of problems and exercises with the purpose of reinforcing the material just covered in class. These

assignments must be completed and turned back by the preassigned due dates, no late assignments will be accepted after the due date.

(2) **GRADING SYSTEM:**

(90,100)	A
(80,90)	B
(70,80)	C
(60,70)	D
(0,60)	F

- (1) **MISSED WORK:** It is expected that you attend all classes. There will be no makeup for missed quizzes unless you are excused as an official participant in a University sponsored event and have followed the required procedure. Makeup for missed exams will only be considered if the circumstances are exceptional and unavoidable, and if they can be documented.
- (2) **ACCOMODATIONS UNDER THE ADA:** If you have or suspect a disability and need accommodations you should contact Disabled Student Services Office (DSSO) at 747-5148 or at [dss@utep.edu](mailto:dss@utep.edu) or come by Room 106 Union East Building.
- (3) **ACADEMIC DISHONESTY :** Academic dishonesty is an assault upon the basic integrity and meaning of a University. Cheating, plagiarism, and collusion in dishonest activities are serious acts which erode the University's educational and research roles and cheapen the learning experience not only for the perpetrators, but also for the entire community. It is expected that UTEP students will understand and subscribe to the ideal of academic integrity and that they will be willing to bear individual responsibility for their work. Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

IMPORTANT DATES TO REMEMBER

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First Day of Classes	August 25th.
Last Day of Classes	December 4th.
Last day to Drop the Class	October 31th.
Final Exam	Wednesday December 10th, 13:00 PM to 15:45 PM.

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