

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

---

Course Number: MATH 1312 CRN 21656  
Course Title : Calculus II  
Location: 10:30 - 11:20 MWF Quinn Hall 103  
Credit Hrs: 3.0  
Term : Spring 2014  
Prerequisite Course: MATH 1312  
Course Fee (if applicable): None  
Instructor: 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: Required: P. Blanchard, R. Devanet, G. R. Hall.  
Differential Equations., Brooks/Cole, 3rd edition.

---

COURSE OBJECTIVES

---

At the end of this course, students will be able to:

- (a) Learn to solve analytically a few important types of differential equations such as separable first order equations, and linear, constant coefficient, higher-order differential equations.
  - (b) Learn to solve more general differential equations and systems equations using numerical methods, such as Euler's method.
  - (c) Learn to model physical phenomena using differential equations
  - (d) Learn to qualitatively analyze autonomous differential equation systems by finding and classifying equilibrium points.
  - (e) Learn to solve linear, constant coefficient differential equations using Laplace transforms.
- 

TOPICS

---

- (1) First Order Differential Equations.
  - (2) First Order Systems.
  - (3) Linear Systems.
  - (4) Non-Linear Systems: Equilibrium Point Analysis and Qualitative Analysis.
  - (5) Laplace Transforms: Introduction, Discontinuous Functions, Second-Order Equations, and Delta Functions.
- 

GRADING POLICY

---

The course grade will be distributed as follows:

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

---

- (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

- (3) **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.
- (4) **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.
- (5) **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 DATE TO REMEMBER

---

First Day of Classes	August 26th
Last Day of Classes	Deceember 3rd.
Last day to Drop the Class	November 1st.
Final Exam	Wednesday Dec 11th 04:00 PM - 06:45 PM.

---