

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

Course Number: MATH 2326 CRN 21708
Course Title: Differential Equations
Credit Hrs: 3
Term: Spring 2021
Course Meetings & Location: Online via Blackboard
Prerequisite Courses: C or better in Math 1312
Course Fee: (if applicable) N/A
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
Textbook: Required: Blanchard, Devaney and Hall, Differential Equations last edition
Recommended: Differential equations by Paul Dawkins, posted at:
https://tutorial.math.lamar.edu/pdf/de/de_complete.pdf
Technology/Materials Strongly recommended: TI-83 or TI-89 Calculator

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

Methodologies and techniques for finding solutions to ordinary differential equations in the context of dynamical systems. Modeling, separation of variables, qualitative and numerical methods, equilibria and bifurcations, linear systems, driven oscillations, real and complex solutions. Nonlinear systems and Laplace transform.

Activities and Assignments: All work, including homework, quizzes, and exams, will take place through Blackboard.

Two exams and a comprehensive final exam will be given. **If it benefits you, the score you receive on the final exam will replace your lowest exam score.**

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

- January 19th First Day of Classes
- February 3rd Census Day (Last day to drop without a W)
- March 15th -19th Spring Break
- April 1st Drop Day (Last day to drop with a W)

Grading Policy: You will be graded on homework, quizzes, exams, and a final exam
25% Homework Assignments and Quizzes
20% Exam I
20% Exam II
35% Final Exam

Assessment of Course Objectives: You will have video access through Blackboard. Other course resources will be found in Blackboard. Quizzes, homework and exams will be also submitted in Blackboard.

The exams are timed, at three hours each. The exams will be available for a 24-hour period on the date specified. 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 24-hour period according to the class calendar. Your final exam will have a time limit of five hours 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.

Make-up Policy: 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.

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/>. Please also make use of the instructor's office hours.

INCOMPLETE GRADE POLICY: Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

COVID-19 Accommodations: Students are not permitted on campus when they have a positive COVID-19 test, exposure or symptoms. If you are not permitted on campus, you should contact me as soon as possible so we can arrange necessary and appropriate accommodations. (classes with on-campus

meetings) Students who are considered high risk according to CDC guidelines and/or those who live with individuals who are considered high risk may contact Center for Accommodations and Support Services (CASS) to discuss temporary accommodations for on-campus courses and activities. Apply at cassportal.utep.edu and fill out a three-question application. You will be scheduled to meet with disability coordinator to discuss your unique situation.

CLASS RECORDINGS: The use of recordings will enable you to have access to class lectures, group discussions, and so on in the event you miss a synchronous or in-person class meeting due to illness or other extenuating circumstance. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. You may not share recordings outside of this course. Doing so may result in disciplinary action

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.

I hope this will help to get you started in the course. You should be able to start working on the assignments beginning Tuesday, January 19th. Please log in on January 19th 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