

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: Fall 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.

- August 23rd First Day of Classes
- September 8th Census Day (Last day to drop without a W)
- October 29th 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.

Other statements and policies

Drop Policy

The Drop Date for this semester is Friday, October 29th, 2021, before 5:00 PM MDT. No drops will be approved after this date or time.

Students who decide to drop the course must process a drop form by sending an email from your miners email account to records@utep.edu by Oct 29 before 5:00 PM MDT. Please note that the College of Science will remain aligned with the university and **will not approve any drop requests after that date.**

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.

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 during 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, TA, and other students should be conducted in an appropriate and professional manner.

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.

COVID-19 Precautions

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

Please contact me immediately if you fall ill during the semester so that we can work together to formulate a strategy to help you get caught up as soon as you are physically able.

Military Statement:

If you are a military student with the potential of being called to military service or training during the semester, you are encouraged to contact me as soon as you receive your orders.

Copyright Statement:

Course Materials

All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

COURSE RESOURCES:

Where you can go for assistance UTEP provides a variety of student services and support:

Academic and Technology Resources

- [Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus, Academic Resources.
- [UTEP Library](#): Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.

Individual Resources

- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.

- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.

I hope this will help to get you started in the course. You should be able to start working on the assignments beginning Monday, August 23rd. Please log in on August 23rd 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