

THE UNIVERSITY OF TEXAS AT EL PASO

COLLEGE OF SCIENCE

DEPARTMENT OF MATHEMATICAL SCIENCES

COURSE BASICS

Course Number: MATH 2301 CRN 20922

Course Title: Mathematics for Social Sciences II

Credit Hours: 3

Term: Spring 2024

Meeting and Location: Online via Blackboard and WebAssign

Prerequisite Courses: MATH 1320 or MATH 1411 or MATH 1508 with a "C" or better

INSTRUCTOR INFORMATION

Instructor: Tuesday J. Johnson

Office Location: Library 510

Office Hours: M/W 12:00 pm – 1:00 pm, Th 10:30 am – 11:30 am

CONTACT

Instructor e-mail: tjohnson3@utep.edu

Math Department: mathdept@utep.edu

Emails will be answered during normal university scheduling. Please allow 24 – 48 hours for the return of emails. Evening and weekend emails will be attended to during regular business hours. Other times at the discretion of the instructor.

Student Office Hours:

Student office hours are a time where you can get individualized help from me. I am available to answer questions about course content and address any concerns you have about the class. During scheduled times, you may drop in without an appointment. You are not required to attend the student office hour sessions if you do not have questions. If you do need help, and cannot attend during the scheduled time, please email me to schedule an appointment to meet in person or using Zoom.

Office hours are only held during normal university schedules. Please allow two business days for the return of emails. Evening and weekend emails will be attended to during regular business hours. Other times at the discretion of the instructor.

During off-scheduling (Finals week) or condensed scheduling (late start, closed university) hours will be adjusted appropriately.

REQUIRED TECHNOLOGY AND MATERIALS

Textbook

Finite Mathematics & Applied Calculus by Waner and Costenoble 8th Edition with a WebAssign access code.

Required

You must have the WebAssign access code. This gives you full access to both the assignments and the e-book.

Optional

A hard copy of the textbook is available but not required for the class. The e-book is adequate and comes with the required access code.

Calculator

A Scientific Calculator with the permutation/combination key is required (example: TI-30XIIS). A graphing calculator similar to a TI-83 or TI-84 is recommended. You may use a free online graphing utility and calculator such as [Desmos Graphing Calculator](#).

Online Components

You are required to have a WebAssign account and the Enhanced WebAssign access code.

Ensure your UTEP e-mail account works, and you have consistent internet access and a stable web browser. [Mozilla Firefox](#), [Google Chrome](#), and [Safari](#) are the most supported browsers for both Blackboard and WebAssign.

You will need to have regular access to a computer or laptop. There may need to be more than a cell phone for doing coursework. You will need to download or update the following software:

- [Microsoft Office](#) (available for free through UTEP),
- [Adobe](#),
- [Windows Media Player](#) or [QuickTime Player](#), and
- [Java](#).

COURSE OVERVIEW

Course Objectives

The Mathematics for Social Sciences II course is designed for students who major in business, social sciences, and liberal arts. The mathematical concepts will be focused on real-life applications that students can relate to.

The course contains basic problems and their applications in mathematics, including but not limited to matrices, limits, the derivative, and its applications, and integrals and their applications.

A student who passes this course will be able to understand and work with these mathematical tools and apply them in future math courses and their careers.

Blackboard

Blackboard will be our primary platform. Inside the Blackboard course you will be able to view announcements (also sent to your email), notes, and any video I find applicable to the course.

The course will be set up in chapters with all the notes from those chapters in one folder. I will post what are called “skeletal notes” which are the notes that I will be discussing in the lecture videos. These will be available in .pdf format. I will also post the completed notes in a separate folder for ease of access in PDF format.

*All work will be completed on WebAssign, and your grade will be available there up to date all semester.

WebAssign

WebAssign

WebAssign is an online Course Management System of Cengage, the publisher of our text. You must have a reliable internet connection to take this course. Use the instructions below to access and register for WebAssign using your official *UTEP email account*. You will have a 14-day free trial to access your coursework immediately.

Instructions to access and register for WebAssign:

On the first day of classes, go to www.webassign.net and follow these steps:

- 1) Click on “Enter Class Key.”
- 2) Enter the class key given by your instructor. Be sure to include all three sections shown:
utep 4180 4541
- 3) Verify the section number and instructor name, then enter your information. Please use your official UTEP miners’ email and remember the password you created.
- 4) The next time you log in, click “Log In” and enter your *UTEP miners e-mail* and the password you created.

You must purchase an access code to log in as soon as possible and before the grace period ends. If you bought a new book from the UTEP bookstore, the code should have come with it. When entering the code, appropriately enter all the words and characters in the boxes.

Grading Policy

You will be graded on the following categories:

- 05% Practice Assignments
- 10% In-Class (Attendance) Problems
- 30% Homework
- 15% Quiz
- 20% Midterm exams (three total)
- 20% Comprehensive Final Exam

Letter grades are determined according to the following scale:

Grade Score

A	89.5 – 100
B	79.5 – 89.49
C	70.0 – 79.49
D	60.0 – 69.99
F	00.0 – 59.99

Assignment Types

You will have 12 practice assignments which contributes 5% to your overall grade. These are divided into two types of assignments; the first being algebraic review assignments while the second type is a reminder for your exams.

You will have an attendance category for this online class which contributes 10% to your overall grade, with problems from each section titled In-Class work. Most of these assignments have 2 or 3 problems. If you are registered with any program that requires an attendance grade, I will use the In-Class category to report your attendance. We do NOT have any required meeting times, but the assignments will show me you are keeping up the pace in class.

You will have a section of Homework for each lecture which contributes 30% to your overall grade. You will have five attempts at each question and are encouraged to use the “Ask Your Teacher” feature of WebAssign to ask questions when they arise. Deadlines can be extended with no penalty, but only once for each assignment so be sure you are ready to work prior to requesting the extension.

After two to three sections, you will have a quiz over those sections. Your quizzes will contribute 15% to your overall grade. The quizzes may not be the same problems you had in the homework; I am checking to see if you have made connections and have learned the material. Quiz deadlines can be extended for a 20% deduction in score. The password for every quiz is the word **ready**.

You will have three tests which contribute 20% to your overall grade. Your first test is scheduled for February 20th, the second test for March 22nd, and the third test is April 23rd. All tests will be open for a 24-hour period only. You will have two hours to complete the test. There are no extensions for tests and the password for every test is the word **ready**.

Finally, you will have a comprehensive final exam open May 6 – May 7 for 48 hours. Everyone is required to take the final exam and the password is the word **ready**. This exam will cover all sections covered this semester. There are no extensions for the final exam.

Campus Schedule

A comprehensive course schedule is attached as the last pages of this syllabus. Semester highlights are included.

- January 16th First Day of Classes
- January 31st Census Day (Last day to drop without a W)
- March 11th – 15th Spring Break – no classes
- March 28th Drop Day (Last day to drop with a W)
- March 29th Cesar Chavez Day – no classes
- May 2nd Last Day of Class Meetings
- May 3rd Dead day
- May 6th – 10th Final Exam Week

Drop Policy

The Drop Date for this semester is Thursday, March 28, 2024, before 5:00 PM MT. No drops will be approved after this date or time.

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.

Course Communication

This is an online class so here are ways we will communicate:

- **Student Office Hours:** I will have office hours for your questions and comments about the course.
- **Course Messages:** Course messages in Blackboard is the best way to reach me for class related items or questions that are not homework specific. My inbox every day is crowded. I will respond to Blackboard Course Messages daily and always before checking regular UTEP email. This is most definitely your best option for getting my response more quickly.
- **Email:** UTEP e-mail is a way to contact me. I will make every attempt to respond to your e-mail within 24-48 hours of receipt. When e-mailing me, be sure to email from your UTEP student account and please put the course number in the subject line. In the body of your e-mail, clearly state your question. At the end of your e-mail, be sure to put your first and last name, and your university identification number.
- **Announcements:** Check the Blackboard announcements frequently for any updates, deadlines, or other important messages. All Blackboard announcements will also be sent as an email to your UTEP account, but the announcements section will always archive these messages.
- **Discord:** I have a discord channel specifically for Applied Calculus, if you would like to join (it is free) the invitation link is <https://discord.gg/RM6YUqi8vc>.

ADDITIONAL COURSE POLICIES AND STATEMENTS

Attendance

You are expected to work toward completion of the course assignments daily. The In-Class assignments are my way of taking attendance for this online class. Failing to complete tasks is equivalent to being absent. Failure to complete assignments for several weeks may result in you being dropped from the course. You are expected to check Blackboard and your UTEP miners' email regularly for announcements.

Academic Integrity

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, and any act designed to give an 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, 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 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.

Course Netiquette

All correspondence with your instructor, TA, and other students should be conducted in an appropriate and professional manner. Please be considerate of your tone and word choice when conducting correspondence.

Accommodations

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 accommodation will be made unless it is determined that doing so would cause undue hardship for the University. Students requesting 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 accommodation 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 accommodation. 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

If you are a military student, or a military affiliated student, thank you for your service and/or thank you for sharing your family member with the country. If you have 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 so that we can make appropriate arrangements.

Copyright

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.

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.

COURSE RESOURCES

Where you can go for assistance as 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.

Tentative Course Schedule

*Subject to change with notice

Section	Title	In-Class & HW Deadlines	Quiz Dates	Exam Dates	Practice Deadlines	
	Getting Started with WA	16-Jan				
5.1	Matrix Addition, Scalars	19-Jan	30-Jan	20-Feb		
5.2	Matrix Multiplication	23-Jan				
5.3	Matrix Inversion	26-Jan				
PreReq	0.2, 0.3, 0.4, 0.5					1-Feb
10.1	Limits: Numerical and Graphical	2-Feb	6-Feb			
10.2	Limits: Algebraic	2-Feb				
10.3	Limits, continuity	6-Feb				
10.4	Average ROC	9-Feb	16-Feb			
10.5	Derivatives: Numerical Graphical	13-Feb				
10.6	Derivatives: Algebraic	13-Feb				
PreReq	0.6, 0.7, 0.8, 0.9				22-Feb	
11.1	Derivatives: Powers, Sums, Multiples	23-Feb	27-Feb	22-Mar		
11.2	Application: Marginal Analysis	23-Feb				
11.3	Product, Quotient Rules	1-Mar	19-Mar			
11.4	Chain Rule	5-Mar				
11.5	Derivatives: Log, Exp Functions	8-Mar				
12.1	Maxima and Minima	26-Mar	5-Apr	23-Apr		
12.2	Applications: Maxima, Minima	29-Mar				
12.3	Higher Order Derivatives	2-Apr				
13.1	Indefinite Integral	9-Apr	19-Apr			
13.2	Substitution	12-Apr				
13.4	Fundamental Theorem of Calculus	16-Apr				
14.1	Integration by Parts	26-Apr	2-May			
14.3	Averages, Moving Averages	30-Apr				

Comprehensive Final Exam

Open
Monday/Tuesday

May 6 - May 7