

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

Principles of Mathematics - 22992 - Math 3325

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| Online via Blackboard | Jan. 19, 2021 – May 06, 2021 Final Exam: May 10 , 2021 | Spring 2021 |
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Prerequisite Course:

Math 3325 – Math 1312 Calculus II

Instructor:

Dr. Emil Schwab

E-mail: eschwab@utep.edu

Office Hours:

Online/TBA

For communication, you must use only your **UTEP email address**.

I will try to return e-mails within 24 hours (except weekends/holidays)

Textbook :

A Transition to Advanced Mathematics / Douglas Smith / 8th edition

Course Objectives and Content

- 1.) Students will be able to understand the basic of logic and to write propositions and sentences by emphasizing the correct usage of mathematical symbols.
- 2.) Students will be able to construct proofs, thoroughly understanding several important proof techniques including direct proof, proof by contraposition, proof by contradiction, proof using cases, and mathematical induction
- 3.) Students will build a solid understanding of some concepts most useful for advanced courses.
- 4.) Students will be able to read and understand mathematical proofs working with definitions and theorems based on the deductive reasoning.
- 5.) Students will be able to write clear and concise mathematical proofs using correct logical steps from hypothesis to conclusion.

The course will cover sections from the chapters 1 – 5 of the textbook .

You will be responsible to access BLACKBOARD to watch the videos posted each week, check the announcements which include the homework, review the notes posted and follow the lessons in the textbook.

Exams and Assignments:

There will be three midterm exams (Exam 1, Exam2 and Exam 3) and one comprehensive final exam. There will be no extra credit or curves on exams. Your exams will be offered on specific dates and will have a time window.

Regularly homework will be assigned. The homework will not be collected. The exams will include also problems from homework or similar.

Exams Tentative Schedule and Grading Policy:

| | Date | Topic | Weight |
|-------------------|------------------------|-----------------------|---|
| Exam 1 | Monday Feb. 22 | Chapters: 1,2 | 100 points possible (25% of final grade) |
| Exam 2 | Monday March 29 | Chapters: 3 | 100 points possible (25% of final grade) |
| Exam 3 | Monday May 3 | Chapters: 4, 5 | 100 points possible (25% of final grade) |
| Final Exam | Monday May 10 | All chapters | 100 points possible (25% of final grade) |

The time window for each exam will be announced. The dates/times for the exams may be changed during the semester.

The Final Grade will be the average of all four scores (Ex1, Ex2, Ex3 and Final) respecting the following grading scale:

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F.

Late Work and Make-up Policy:

No late work and submission of exams will be accepted if the reason is not considered excusable. Make-up exams will only be given under extraordinary circumstances, approved by instructor.

Attendance & Withdrawal:

This is an online course and as such you do not have any strict attendance guidelines. You are expected to work toward completion of the course weekly. It is the student's responsibility to drop the course if she/he desires a grade W. The Drop Date for this semester is **April 1st, 2021**. After the drop deadline the College of Science will not approve any drops (W).

Technology Requirements:

Course content is delivered via Blackboard. Google Chrome and Mozilla Firefox are the best browsers for Blackboard.

You will need to have access to a computer/laptop and scanner.

IMPORTANT: If you encounter technical difficulties beyond your scope of troubleshooting, [please contact the UTEP Help Desk](#)

Netiquette/Copyright Statement:

Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only and you are not allowed to copy documents and paste them to a publicly accessible website, blog, or other space.

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.

Scholastic Integrity:

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 <http://www.utsystem.edu/bor/rules/homepage.htm>

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

Disability Statement:

If you need special accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their website at www.sa.utep.edu/cass.

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 the instructor as soon as possible.