

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

Principles of Mathematics - 10629 - Math 3325

Aug. 26, 2024 – Dec. 05, 2024 / Final Exam: Dec. 10, 2024

Instructional Method: Hybrid: 50%-85% Online

Face-to-Face: This class meets Face-to-Face regularly on **Thursday (7:00pm - 8:20pm) in BH 130**. The Midterm Exams are scheduled Face-to-Face, on specific dates, on Thursday (7:00pm - 8:20pm) .

Online: The online portion:

- 1.) video-lectures, slides-notes - **via Blackboard**.
- 2.) Homework - **via WebAssign**
- 3.) The Final Exam will be online via Blackboard on Tuesday Dec.10

Instructor:

Dr. Emil Schwab (Professor / Mathematical Sciences / Office: BH 201)

E-mail: eschwab@utep.edu

Office Hours:

Tue / 9:00 – 10:00 am, online on Zoom

Thu / 5:30 – 6:30 pm, online on Zoom

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

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

For Homework (HMW) use “Communication/ Ask Your Teacher” on WebAssign.

Textbook :

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

WebAssign Access Code(Card) and account required - includes E-BOOK.

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 Lectures posted and check the announcements, review the notes posted and follow the lessons in the textbook. Also you are responsible to register and complete the Homework in WebAssign.

Exams and Assignments:

All homework assignments (HMW) will be completed on WebAssign. The midterm exams will be face-to-face and the final exam online on Blackboard.

There will be homework (HMW), three midterm exams (Exam 1, Exam2, Exam 3) and one comprehensive final exam. There will be no extra credit or curves on exams /HMW. There is also no replacement of any exam with the final exam score. Everyone must take the final, regardless of current standing in the course.

Exams Tentative Schedule and Grading Policy:

	Date/Time	Topic	Weight
Exam 1 Face-to-Face	Thursday Sept. 26 7:00pm - 8:20pm in BH 130	Chapters: 1,2	100 points possible (20% of final grade)
Exam 2 Face-to-Face	Thursday Oct. 24 7:00pm - 8:20pm in BH 130	Chapters: 3	100 points possible (20% of final grade)
Exam 3 Face-to-Face	Thursday Nov. 21 7:00pm - 8:20pm in BH 130	Chapters: 4,5	100 points possible (20% of final grade)
Final Exam online	Tuesday Dec. 10 on Blackboard	All chapters	100 points possible (20% of final grade)
HMW	See the due dates on WebAssign and Blackboard	All chapters	100 points possible (20% of final grade)

The dates/times for the exams may be changed during the semester.

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

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F.

Graduate Credit. University policy requires additional course work for graduate student taking this course for credit toward graduate degree. In this case the graduate student have to complete additional work from ch.6 of the textbook (groups, rings, fields), topics which will be included in the final exam. This additional work will represent additional 30 points in the final exam. Since your possible score therefore increases to 130%, I will divide your total final exam score by a factor of 1.30 to get to a 100% scale.

Late Work and Make-up Policy:

Make-up exams will only be given under extraordinary circumstances, approved by instructor. No late submission of online final exam will be accepted. Each homework has 5 attempts submission allowed. There are **no** automatic extensions for homework. For the homework not completed/submitted by due date will be assign 0 points

Attendance & Withdrawal:

It is the student's responsibility to drop the course if desired a grade W, before the drop deadline. The Drop Deadline for this semester is **Friday/ Nov. 1, 2024.**

No W grade can be given after the drop deadline.

However, if you do not submit two or more homework assignments onto WebAssign, then you may be dropped from this class due to lack of effort.

Technology Requirements:

The online part of the course is delivered via Blackboard and WebAssign.

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. 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.

Instructions to access the HMW/ Textbook /via WebAssign

Go to GetEnrolled.com or www.webassign.net

Enter the Course Key

Follow the on-screen instructions to complete your WebAssign registration. Verify the section number and instructor name, then enter your information:

Name as it is in the official UTEP Roster (no nicknames)
UTEP miners email address (no other e-mail address will be accepted)

If these information will not match UTEP record you will be removed from WebAssign.

Visit the [Cengage Student Registration Page](#) for a step-by-step guide and short video on how to register for your course