

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

Principles of Mathematics - 23764 - Math 3325

Jan. 17, 2023 – May 04, 2023 / Final Exam: May 8, 2023

Hybrid: 50% Online Instructional Method

Face-to-Face: This class meets Face-to-Face regularly on **Wednesday (4:30pm - 5:50pm in LART 205)** The Midterm Exams are scheduled Face-to-Face.

Online: The online portion (video-lectures, slides-notes) is **asynchronous via Blackboard**. The Final Exam will be online via Blackboard

Instructor:

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

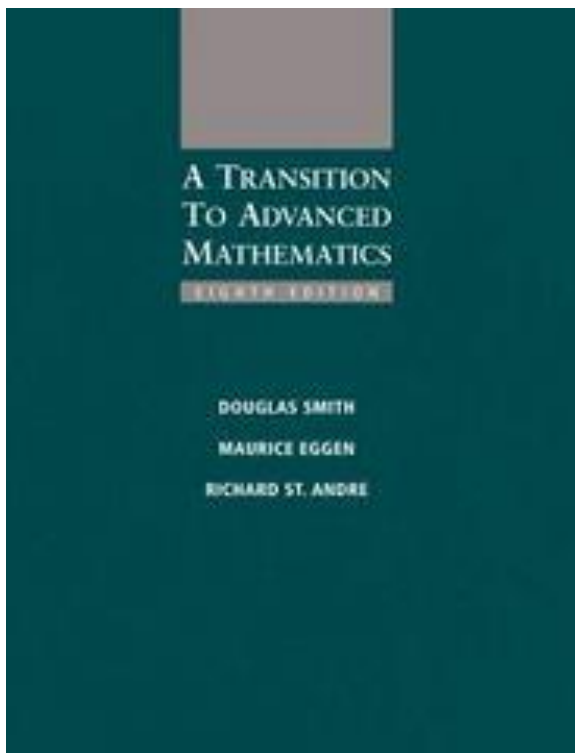
E-mail: eschwab@utep.edu

Office Hours: M/ 4:00 – 5:30 pm and W/ 4:00-4:30 pm in BH 201

E-mai communication: you must use only your UTEP email address.

Textbook :

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



(also eBook available)

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 /homework , review the notes posted and follow the lessons in the textbook.

Exams and Assignments:

There will be **three face-to-face midterm exams** (Exam 1, Exam2 and Exam 3) and **one online comprehensive final exam**. There will be no extra credit or curves on exams.

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

Exams Tentative Schedule and Grading Policy:

	Date/Time	Topic	Weight
Exam 1 Face-to-Face	Wednesday Feb. 22 4:30-5:50 pm in LART 205	Chapters: 1,2	100 points possible (25% of final grade)
Exam 2 Face-to-Face	Wednesday March 29 4:30-5:50 pm in LART 205	Chapters: 3	100 points possible (25% of final grade)
Exam 3 Face-to-Face	Wednesday April 26 4:30-5:50 pm in LART 205	Chapters: 4,5	100 points possible (25% of final grade)
Final Exam online	Monday May 8 4:00-6:45 pm on Blackboard	All chapters	100 points possible (25% of final grade)

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:

Make-up exams will only be given under extraordinary circumstances, approved by instructor. No late submission of online final exam will be accepted.

Attendance & Withdrawal:

The student may be dropped by the instructor for (excessive absences) 3 or more absences of the regularly Face-to-Face meetings. Also, the student may be dropped from the class for missing Exams.

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 **Thursday, March 30, 2023**.

No W grade can be given after the drop deadline.

Technology Requirements:

The online part of the course is delivered via 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. 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.

COVID - 19 Precautions:

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you have tested positive for COVID-19, you are encouraged to report to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors.