

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

Course #: Math 4336, CRN 23580
Course Title: Applied Analysis II
Credit Hrs: 3
Term: Spring 2024
Course Meetings & Location: 12:00 pm - 1:20 pm, LART 209 (hybrid class)
Prerequisite Courses: Prerequisite(s): (MATH 2326 w/C or better)
Instructor: Andrew Pownuk
Office Location: Bell Hall 144
Contact Info: Phone # 915 747-6773
E-mail address: ampownuk@utep.edu
<http://www.math.utep.edu/Faculty/ampownuk/>
TR 9.00 am-10.50 pm, Bell Hall 144
Office Hrs: TR 9.00 am-10.50 pm, Bell Hall 144
Textbook(s), Materials: Required: Advanced Engineering Mathematics, 10th Edition
Author: Kreyszig ISBN: 9780470458365 Copyright
Year: 2011 Publisher: John Wiley & Sons, Incorporated

Course Objectives (Learning Outcomes): Goal of the course:
Applied Analysis II: Series solutions of differential equations. Fourier series and Fourier integrals. Bessel's equation and Bessel functions. Legendre's equation and Legendre polynomials, the Sturm-Liouville problem and eigenfunction expansions, and an introduction to partial differential equations.

Chapter 5, Chapter 11, and Chapter 12 from the textbook.

Course Activities/Assignments: Online notes, assignments and grades can be found on Blackboard.

Assessment of Course Objectives: Homework, tests, final exam.

Grading Policy: $f_g = 0.6 \cdot \overline{test} + 0.1 \cdot \overline{homework} + 0.3 \cdot final$
 \overline{test} - average grade from tests.
 $\overline{homework}$ - average grade from homework.
 $final$ - final exam

Drop Date ***The Drop Date for this semester is March 28th, 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 official UTEP email account to records@utep.edu by March 28th before 5:00 PM MDT. When you email, be sure to do so from your email account and include your full name, student ID number, and full class details such as the course name, number, and CRN. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**

Attendance Policy: As with every college course, attendance is essential for success. Even though there is no attendance policy, please try not to be absent unless absolutely necessary.

Academic Integrity Policy: UTEP's policy cited in <http://academics.utep.edu/Default.aspx?tabid=23785>

Civility Statement: No cell phones are allowed to be used during the class, quizzes, tests

Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.

Military Statement: For example: 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 as soon as possible