

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS

Course Number: 5329 (CRN 12087)
Course Title: Numerical Analysis
Credit Hours: 3
Term: Fall 2017
Course Meeting Time: MW 10:30 am -11:50 am , Bell Hall 130A
Course Website:

http://www.math.utep.edu/Faculty/nsharma/public_html/fa17_5329.html

Prerequisite Courses: Matrix Algebra (Math 3323) and basic programming skills.
Instructor: Natasha S. Sharma, Ph.D.
Office Location: Bell Hall 318
Contact Info: Phone: 747-6858
E-mail: nssharma@utep.edu
Office Hours: Mondays 1:30 pm -2:30 pm, or by appointment
Teaching Assistant: Mr Julio Solis
Contact Info: E-mail: jsolis8@miners.utep.edu
Textbook, Materials: Numerical Analysis: Mathematics of Scientific Computing, Third Edition, by David Kincaid and Ward Cheney.

Course Objectives: This course introduces students to the algorithms and methods that are needed in Scientific Computing.
Our main objectives are:

- to deepen the comprehension of these methods through conceptual discussions and the investigation of many problems and applications.
- to implement these methods in MATLAB and apply them to the solve of a variety of problems.

Assignments: There will be approximately 5 homeworks assigned during this semester. You are encouraged to discuss the homework in group however, you need to write your own homework. **Plagiarism** is a serious offense. Identical homeworks will be awarded zero points with no possibility of a makeup for that assignment. Additionally, no late homework will be accepted.

Assessment: There will be two midterm exams and a final exam in addition to the homeworks. This will be a closed notes, closed book exam no graphing or programmable calculators are allowed.

Grading Policy: Following is the break up of the final grade-

Two Midterms exams	40% (20% each)
Homework quizzes	30%
<u>Comprehensive final exam*</u>	<u>30%</u>
Total	100%

*The final exam will be given on **Friday, 12/15, 10:00-12:45PM.**

The two midterms will be held on **10/04** and **11/13.**

- Make-up Policy:** No make-up exam or alternate exam is permitted. Please email me in case of an emergency as soon as possible,
- Attendance Policy:** As with every college course, attendance is essential for success. Try not to be absent unless it is absolutely necessary. If possible, it is better to let me know ahead of time when you will be absent. If you are absent, it is your responsibility to find out which assignments you need to make up.
- Academic Integrity:** We will follow the university's policy in this course, as explained in the Handbook of Operating Procedures. You may find it [here](#). You may be directed to change seats at any time during exams.
- Civility:** Please do not use cell phones, pagers, iPods, MP3 players, blue tooth devices, etc. during class. Cell phones and pagers should be set to silent or vibrate, and if you absolutely must answer your phone, calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please do not send text messages during class.
- Disability Statement:** If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.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 me as soon as possible.
- Course Schedule:** We will cover selected sections from chapters 2--8 of the textbook.
- Drop Deadlines:** The last day to drop the course is Friday, November 3rd. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**
- Tutoring:** The Tutoring and Learning Center (TLC) offers free tutoring and is located on the second floor of the campus library. There are also numerous private tutors available. Please also make use of the instructor's office hours.