Course #: MATH 5330 (CRN 26035)
Course Title: Computational Methods of Linear Algebra
Credit Hrs: 3
Term: Spring 2020
Course Meetings & Location: MW 18:00-19:20, BELL 130A
Prerequisite Courses: MATH 3323 or MATH 4326
Course Fee: (if applicable) None
Instructor: Granville Sewell
Office Location: Bell 200
Contact Info: Phone # 747-6762
E-mail address sewell@utep.edu
Fax # 747-6502
Emergency Contact
Office Hrs: MW 10:30-11:20, W 17:00-17:50

Textbook(s), Materials:
Suggested:

Course Objectives
(Learning Outcomes):

a. Become familiar with some of the more popular numerical algorithms for solving linear systems of equations, eigenvalue problems, linear least squares problems, and linear programming problems.
b. Gain experience writing computer programs to implement some of these algorithms.
c. Learn how to determine the complexity of these algorithms, that is, the asymptotic dependence of computer time on matrix size.
d. Learn how to anticipate and control roundoff errors associated with these algorithms.

Course Activities/Assignments: There will be homework assigned regularly, which will include computer (MATLAB or FORTRAN) projects.
Assessment of Course Objectives: Grades will be based on homework and exams, details are at the class website, www.math.utep.edu/Faculty/sewell/5330/5330h.htm
Course Schedule: Complete homework and test schedule is given at the class website, www.math.utep.edu/Faculty/sewell/5330/5330h.htm
Grading Policy: 40% based on homework, 40% based on two tests, 20% based on final exam. Details are at course website, www.math.utep.edu/Faculty/sewell/5330/5330h.htm
Make-up Policy: Late homework not accepted. Make up tests will be given for excused absences.
Attendance Policy: None
Civility Statement: None
Disability Statement: If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the CASS at 747-5148 or at <cass@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: 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