Course #: MATH 4329 (CRN 11984)  
Course Title: Numerical Analysis  
Credit Hrs: 3  
Term: Fall 2014  
Course Meetings & Location: TR 1:30-2:50, COTT 207  
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 #747-5761  
Office Hrs: MTR 9:30-10:20  
Suggested: Students will  
Course Objectives (Learning Outcomes):  
   a. Become familiar with some of the more popular numerical algorithms for solving certain mathematical problems, such as nonlinear and linear algebraic systems, differential equations, eigenvalue extraction and numerical quadrature.  
   b. Gain experience writing computer programs to implement some of these algorithms.  
   c. Learn how to determine the complexity of an algorithm, that is, the asymptotic dependence of computer time on problem size.  
   d. Learn how to analyze the truncation error of an algorithm, for example, to determine the dependence of error on discretization size.  
   e. Learn how to anticipate roundoff errors associated with the use of finite precision arithmetic, and to be aware of the type of algorithms which are likely to suffer from serious roundoff error.  
   f. Learn to choose among competing algorithms for particular applications, taking into account algorithmic complexity, accuracy and stability.  
Course Activities/Assignments: There will be homework assigned regularly, which will include computer (MATLAB) 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/4329/4329h.htm  
Course Schedule: Complete homework and test schedule is given at the class website, www.math.utep.edu/Faculty/sewell/4329/4329h.htm  
Grading Policy: 20% based on homework, 40% based on two tests, 40% based on final exam. Details are at course website, www.math.utep.edu/Faculty/sewell/4329/4329h.htm  
Make-up Policy: Late homework not accepted. Make up tests will be given for excused absences.  
Attendance Policy: None
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<tr>
<td><strong>Civility Statement:</strong></td>
<td>None</td>
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<tr>
<td><strong>Disability Statement:</strong></td>
<td>If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by e-mail to <a href="mailto:cass@utep.edu">cass@utep.edu</a>, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at <a href="http://www.sa.utep.edu/cass">www.sa.utep.edu/cass</a>.</td>
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<td><strong>Military Statement:</strong></td>
<td>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 your instructor as soon as possible</td>
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