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

Course #:	5343
Course Title:	Numerical Solution to Partial Differential Equations CRN 25242
Credit Hrs:	3
Term:	Spring 2015
Course Meetings & Location:	**Tu-Th 1:30pm-2:50pm** CRBL C 302
Prerequisite Courses:	A strongly motivated student with a Calculus (I,II and III) and Linear Algebra background should be able to follow the class. **Programming is <u>not</u> a prerequisite but a desire to learn programming is!**
Instructor:	Dr. Natasha Sharma
Office Location:	Bell Hall 318
Contact Info:	Phone # 915-747-6858
	E-mail address: nssharma@utep.edu
	Emergency Contact: 915-747-5761 (math dept office)
Office Hours	Wednesdays 1:30pm-4:30pm
Textbook:	Computational Partial Differential Equations Using MATLAB by Jichun Li and Yi-Tung Chen
Course Objectives (Learning Outcomes):	*1.*To provide a sound mathematical background in numerical methods for pdes. This includes a description of the pdes which govern physical phemonena, the numerical methods of finite difference and finite element and the issues of convergence, stability and error analysis for the methods. 2.To supplement the understanding of these methods, we will have a hands on experience with programming these methods through the Matlab codes provided with the textbook.

Assignments:	Homeworks, discussion for design of codes and algorithm.

Grading Policy:	You will be graded on attendance, class participation and assignments. If you miss a class due to emergency, you have to provide a written document(e.g. doctor's note). **Grading policy**: Assignments(70%), attendance and class participation (30%).
Make-up Policy:	Late homework is not accepted.
Attendance Policy:	**Attendance is required and noted at the beginning of class; more than a total of TWO unexcused absences will result in an instructor-initiated drop or final grade reduction. Your academic advisor will be consulted before final action is decided and taken.**
Academic Integrity Policy:	Violations of academic integrity, including unauthorized submission of work performed by others, will be pursued vigorously to result in the most severe sanctions. Please refer to UTEP's policy cited in sa.utep.edu/osccr/academic-integrity

Civility Statement:	No text messaging in class. Please silence cell phones before coming to class. Students are expected to actively participate in class discussions and group activities. Group work that is not completed in class is to be finished as homework, so use the class time wisely by staying focused on the class topic and avoiding chit-chat.
Disability Statement	If a student has or suspects she/he has a disability and needs an accommodation he/she should contact the Center for Accommodations and Support services. sa.utep.edu/cass/ (located in Union East Room 106. The student is responsible for presenting

	to the instructor any CASS accommodation.

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 your instructor as soon as possible.