

SYLLABUS AND COURSE INFORMATION Spring2015

MATH 317 – Numerical Analysis

Room: SS124; **Day and Time:** TR 9:00AM-10:45AM,

Meets 1/20/2015 through 5/15/2015

Instructor: Dr. Nikolay Metodiev Sirakov **Office:** Bin 322
Office Hours: T 11AM-12PM **E-mail:** Nikolay.Sirakov@tamuc.edu
TR 11AM-1PM **Office Phone:** 903 886 5943
F 9AM-11AM

Additional by appointment

COURSE DESCRIPTION

Text: Applied Numerical Analysis Using Matlab, Lauren V. Fausett, 2nd Ed., Pearson Prentice Hall, 2008. ISBN: 0-13-239728-5

Pre-requisite: Math 314

Course Content: Sections: 1.1-1.4; 2.1-2.3; 3.1; 3.2; 8.1, 8.3; 9.1; 11.1, 11.2.1, 11.2.2; 5.1

Students Learning Outcomes: The student will learn the basic asymptotic notations for numerical methods assessment. They will understand and will be able to apply the basic numerical methods for: solving non-linear equations of one variable; linear systems of equations; data interpolation and approximation; differentiation and integration. The students will learn to analyze a method regarding its convergence, and complexity. They will know also to what problems and how to apply the method in particular using MatLab functions. Methods for Eigen values will be discussed upon time permission.

Online materials: <http://faculty.tamuc.edu/nsirakov/Teaching/>

COURSE EVALUATION-

Basis for Evaluation:

In-class exams	- 42%
HW/ Num. Methods in MatLab	- 18%
Short quizzes	- 16%
Comprehensive final exam	- 24%

Grading Policy: **A:** 100%- 90%
B: 89% - 80%
C: 79% - 70%
D: 69% - 60%
F: Less than 59 %

The professor reserves the rights to reward students for continuous hard work.

Additional Performances: In class check problems, Home Practice Problems, Extra Credit Problems

Final Test Section: 317 Date: Tuesday, May 12, 2015 Time: 8AM-10AM

COURSE POLICIES

In-class problems: *are to be solved during the class period. No makeup is allowed.*

Short quizzes: *are to be solved independently during the class period. No makeup is allowed.*

Tests: *The two in-class tests will be given roughly at regular intervals. Students will be informed of the test dates around a week in advance. The test will take one class period and will be given at the scheduled times only. No opportunity will be given to take the test at earlier or later times except in cases of formal institutional excuses as mentioned above.*

Makeup: *Except in the case of a formal institutional excuse, no individual makeup test will be permitted.*

Cheating: test, quizzes, HW and ECP results will be canceled in case of cheating.

Students requesting accommodations for disabilities must go through the Academic Support Committee. For more information, please contact the Director of Disability Resources & Services, Halladay Student Services Bldg., Room 303D, 903 886 5835.

All students enrolled at the University shall follow the tents of common decency and acceptable behavior conducive to a positive learning environment (**See Student's Guide Handbook, Polices and Procedures, Conduct**).

About the library computer lab you may contact Karen_Akins@tamu-commerce.edu or Ph: 903-886-5728