

Fall 2009

Math 2418.501

Course Information:

Course Number and Section: Math 2418.501

Course Title: Linear Algebra

Term: Fall 2009

Days and Times: Mondays and Wednesdays 7:00 p.m.-8:15 p.m.

Room: FN 2.102

Contact Information of the Professor:

Istvan Ozsvath

Office Phone: 972-883-2174

Office Location: ECSN 3.922

Office Hours: MW 4:00-5:00 p.m. and by appointment

E-Mail Address: ozsvath@utdallas.edu

Contact Information of the class' TA: Shyamal De

Office Location: FN 1.104

E-Mail Address: SKd081000@utdallas.edu

Pre-requisite: MATH 2419 (Calculus), or consent of instructor

Co-requisite: You must be enrolled in one of the following two hour- problem sections per week:

MATH 2018.801	M 8:30-10:20 p.m.	ECSS 2.311
MATH 2018.803	W 8:30-10:20 p.m.	CBW 1.102

Shyamal De (our TA for the course) will review the material discussed in class, review material from pre-requisite courses, consider your questions, and go through the quizzes, exams, and work problems you would like to study in depth. You will also take quizzes for the course during these sessions.

Restrictions: The usage of graphic calculators are not permitted in the class room.

Course Description: The purpose of this course is to consider the basic concepts of linear algebra and study its fundamental techniques.

Learning Outcomes: Students will be able to solve systems of linear equations, use matrices, compute the inverses of square matrices and their determinants, recognize and use linear vector spaces and inner product spaces, compute eigenvalues of symmetric matrices, and apply the least square methods to analyze data.

Required Text: Howard Anton, *Elementary Linear Algebra*, 9th edition, John Wiley & Sons, Inc., 2005.

Suggested Texts and Materials: *Solutions Manual*

Grading Criteria:

One Midterm Exam (100 points).

One Final Exam (100 points).

Eight Quizzes, we count the five best grades (20 points each).

Course and Instructor's Policies:

Any action that disturbs your classmates or interrupts the lecture is unacceptable. Examples of such actions are as follows:

- 1) Entering the classroom late.
- 2) Leaving the classroom before break or before the end of lecture.
- 3) Using cell *phones, ringers, buzzers, beepers, alarms*, and *computers*.

There will be no extra credit for make-up exams, make-up quizzes unless under extraordinary circumstances.

During exams and quizzes your books must be closed; no notes or graphing calculators may be used.

Academic Calendar:

August 24: First Day of Classes

September 7: Labor Day

September 28: Religious Holiday

September 30: Review

October 7: Midterm

December 7: Review (Last Day of Classes)

December 14: Final Examination (7:00 p.m.)