

Spring 2009

***Math 2418.501***

**Course Information:**

Course Number and Section: Math 2418.501

Course Title: Linear Algebra

Term: 2009 Spring

Days and Times: Mondays and Wednesdays 7:00-8:15 P.M.

Room: Cecil H. Green Hall 3.302

**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](mailto:ozsvath@utdallas.edu)

**Contact Information of the class' TA:**

Da Xu

Office Location: FN 1.104

E-Mail Address: [dx072000@utdallas.edu](mailto:dx072000@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. | Cecil H. Green Hall 3.302 |
| MATH 2018.803 | W 8:30-10:20 p.m. | Cecil H. Green Hall 3.302 |

Mr. Xu (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*, 9<sup>th</sup> 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:**

January 12: First Day of Classes

January 19: Martin Luther King Day

February 25: Review

March 2: Midterm

March 16-21: Spring Break

April 8: Religious Holiday

May 4: Review (Last Day of Classes)

May 11: Final Examination (7:00 p.m.)