Mathematics 221 SYLLABUS
Spring, 2011

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Course Content: Mathematics 221 is an introduction to linear algebra. This course will cover systems of linear equations, vectors, matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, inner product spaces, and applications.

Course Objectives: At the end of the course, the student should achieve the following goals: to know the basic definitions and theorems in the field of linear algebra as described in the course content; to solve basic problems in linear algebra using matrices and matrix operations; to prove the fundamental relationships (theorems) between the concepts in the course.

Textbook: H. Anton, *Elementary Linear Algebra*, 10th edition.

Attendance: Students are expected to attend all classes and are responsible for all material covered in class as well as any changes made in the schedule regarding homework and tests. Class attendance and consistent preparation for class will determine the success or failure the student realizes in this course.

Blackboard site: There will be a Blackboard course site, **Math221 Spring 2011**. Outlines of each class will be posted there. This includes topics covered that day, homework assignments, suggestions on studying the textbook, topics to preview before next lecture and other announcements. Students should check the site at least once a day.

Grading:

Homework	100
Tests (3 @ 150 points each)	450
Final Exam	200
Total points	750

A rough guide to assign letter grades:

A: roughly more than 90 %; B: 80 – 89 %; C: 70 – 79 %; D: 60 – 69%; F: below 60 %
Grades of A-, B+, B-, C+, C-, D+ may be assigned.

Tests: There will be three tests on the following Friday afternoons: **February 11**, **March 18**, and **April 15**, **2:00 pm – 5:00 pm**. Each test has a 50-minute closed-book part (worth 100 points) and a two-hour open-book part (worth 50 points). For the open-book part, you may use your own notes from class, handouts given in the course and your textbook. No other material will be allowed. All materials are subject to inspection.

You are expected to take tests at the scheduled times. Any emergencies will be handled on an individual basis and must be documented. **No make-up test will be given after the testing time and date**.

Homework: Homework will be assigned on a regular basis and will be collected and graded.

Final exam: A closed-book, cumulative final exam, worth 200 points, will be given at the time scheduled by the registrar.

Written Work: Thoughts are expressed by sentences. Your written work must be in complete sentences. Use mathematical symbols wherever appropriate. Pay attention to how the problems are worked out in the textbook. Your work should be neat and legible. It is common practice to rewrite solutions once they are found.

Calculators: In general, calculators will not be allowed unless the opposite is announced.

HONOR CODE: THE HONOR CODE OF OXFORD COLLEGE APPLIES TO ALL WORK SUBMITTED FOR CREDIT. ALL SUCH WORK WILL BE PLEDGED TO BE YOURS AND YOURS ALONE. THIS IS THE CASE WHEN YOU PLACE YOUR NAME ON WORK SUBMITTED.