UWG Spring 2015, Math 4513, Linear Algebra 1

Instructor: Prof. Amin Boumenir
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Office Hours: Mondays, Wednesdays, Fridays 8:00 to 9:00 & 11:00 to 12:00.

Prerequisites: MATH 1634 with a grade of C or higher


Description: The first course in a comprehensive, theoretically and proof-oriented, two-course sequence in linear algebra. Topics include vector spaces, subspaces, linear transformations, determinants, and elementary canonical forms.

Main topics: Vector Spaces, Finite-Dimensional Vector Spaces, Linear Maps, Eigenvalues and Eigenvectors, Inner-Product Spaces, Operators on Inner-Product Spaces, Trace and Determinant.

Learning outcome: The student will be able to do proofs using the abstract setting of matrix theory.

Student Evaluation:

Tests (300 points): There will be three 50-minute tests, each worth 100 points.

Quizzes (100 points): There will be approximately 8 quizzes. The best 5 (x20pts) will count.

Final Exam (200 points): There will be a comprehensive final exam worth 200 points.

Grading: 540-600= A; 480-539= B; 420-479= C; 360-419 =D; 0-360= F

Test and Quiz Policy: No make-up tests or quizzes will be given.

Attendance Policy: 10 mins late => you stay out and 6 absences lead to WF

CELL Phones: You use it ➔ You lose it!

Important Dates: Feb 27 Withdrawal; March 16-20 Spring Break.

Test #1: Monday 9 Feb; Test #2: Monday 10 March; Test #3: Monday 13 April

Final: Monday, April 20th 2015, from 8:00 to 10:30.