Advanced Linear Algebra
MATH430
Course information for Fall 2012

Professor: Dr. Somantika Datta
320 Brink Hall
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sdatta@uidaho.edu
Office hours: Wed 3:30 - 5:00, Thurs 1:30 - 3:00, or by appointment

Class schedule: MWF 9:30 - 10:20 (JEB 025)


Course webpage: [www.webpages.uidaho.edu/sdatta/math430.html](http://www.webpages.uidaho.edu/sdatta/math430.html)

Course topics (sections indicated are from the above mentioned book):

1. Vector Spaces
   1.1 - 1.6

2. Linear Transformations and Matrices
   2.1 - 2.6

3. Elementary Matrix Operations and Systems of Linear Equations
   3.1 - 3.4

4. Determinants
   4.1 - 4.4

5. Diagonalization
   5.1 - 5.2, 5.4 (The Cayley-Hamilton Theorem)

6. Inner Product Spaces
   6.1 - 6.6, 6.8

7. Canonical Forms
   7.1 - 7.3

Assignments, exams & grading:
Homeworks - 100 points
Midterm I - 100 points, to be held on October 5 (Friday)
Midterm II - 100 points, to be held on November 14 (Wednesday)
Final - 150 points to be held on December 14 (Friday), 10:00 - 12:00

(The dates set for the exams apply only to on-campus students. Students taking the course via EO need to set up a date with their respective proctors.)

In general, there is no make-up policy for missed exams.