

MATH 316 Introductory Linear Algebra Fall 2009

Instructor: Hideaki Kaneko, Ph.D., Professor of Mathematics
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Time & Place: TTh 15:00-16:15, Constant Hall 2100

Office Hours: 11:00-12:15, 13:30-14:30 TTh

Website: <http://www.lions.odu.edu/~hkaneko/teaching/Fall09/316.htm>
The website will contain general announcements, homework sets, grades, possibly partial solution sets. Students are encouraged to check it with some frequency.

Textbook: **Linear Algebra with Applications, Fourth Edition,**
by **Otto Bretscher**, Prentice Hall, 1997.
We will cover Chapters 1-7.

Course Overview: Math 316 is a three credit introductory course to the fundamentals of linear algebra. Topics will include solutions of linear systems of equations over the reals, matrices, vector spaces and subspaces, dimension and bases, eigenvectors and eigenvalues and, time permitting, orthogonality. The lectures will be based on axioms and theorems, however, an effort will be made to motivate the theory using examples using realistic applications.

Prerequisite: A grade of C or better in Math 212.

Grading: There will be 3 in-class tests, approximately 6 quizzes and a comprehensive final exam. They are weighted as follows:

3 Tests:	45%
Weekly Quizzes:	25%
Final exam:	30%

Makeup Policy: No makeup exams or quizzes, unless exceptional circumstances such as illness requiring a physician's care which can be documented. A lowest quiz grade will be dropped. Final exam score, if higher, will replace the lowest test score.

Other important dates:

Monday, September 7 – Labor Day Holiday

Friday, October 2 – Last Day to withdraw w/o instructor's signature

Saturday, Oct 10 –Tuesday, Oct 13 – Fall Holiday

Friday, Dec 11 – Classes end

Final Exam. - Saturday, Dec 12, 3:45-6:45pm

Other guidelines: You are encouraged to study and discuss the class material in groups. Asking questions to your colleagues and having to answer your colleagues' questions are very useful and effective steps in the learning process. However, anything you turn in must be authored solely by you.
Abide by the Old Dominion University's honor code.

Homework: You are responsible for the material covered in the following problems from the book. Quiz problems will be closely based on the homework problems.