Syllabus (Spring 2012)
MA 3280-01 – Linear Algebra
11:30 MWF – 202 Elliott

Howard Iseri
My wife Linda is also a member of the Math and CIS faculty, so there are two Drs. Iseri. Call me Howard.

Office: 213B Elliott Hall. Email: hiseri@mansfield.edu. Web page: http://faculty.mansfield.edu/hiseri.
Phone: 662-4701 (I like email messages a lot more than phone messages).

Office Hours: 10:30 MWF, 1:00 T, and 11:30 Th.

Text: Linear Algebra, Lipschutz and Lipson. Schaum’s Outline Series.

Catalog Description: A study of the geometry of vectors, matrix algebra and operations, solutions of general systems of linear equations, inversion of matrices, determinants, vectors and vector spaces, subspaces, linear independence, bases and dimension, linear transformations, eigenvalues and eigenvectors and applications. (Addresses NCTM Standards 1.5.11 and 1.5.13 for mathematics Education majors.)
Prerequisite: MA 2232.

NCTM evidence for Mathematics Education Majors: Mathematics Education majors are required to compile an electronic portfolio including evidence that supports NCTM accreditation of this program. The mathematics faculty have designated a number of specific items to be included in your portfolio addressing NCTM standards 1.5.1, and 1.5.13.

Calculator: You may want to use a calculator for this class, and you will be allowed to use it on tests. A $10-$15 scientific calculator or statistical calculator should be sufficient.

Assignments: 10% total Homework and quizzes.
22% each Three Tests (Wednesdays, February 15th, March 7th, April 11th).
24% Final Exam (Wednesday, May 9th at 10:15).

Letter Grades: I will assign letter grades based on the following percentages. An A is 93% or better. An A- is 90% or better. An A+ is 87% or better. A B+ is 83% or better. A B is 80% or better, A C+ is 77% or better, A C is 73% or better, A C- is 70% or better, A D+ is 67% or better, A D is 63% or better, and a D- is 60% or better. Anything below 60% is an F.

Material to be covered: See Course Calendar. (http://faculty.mansfield.edu/hiseri/MA3280/MA3280.htm)

Course Objectives: Goals for the course are that students will be able to:
Student Learning Outcomes: Students in this course will:
1. Demonstrate ability to manipulate matrices and to do matrix algebra.
2. Demonstrate ability to solve systems of linear equations.
3. Demonstrate ability to work within vector spaces and to distill vector space properties.
4. Demonstrate ability to manipulate linear transformations and to distill mapping properties
5. Demonstrate ability to manipulate and compute determinants.
6. Demonstrate ability to compute eigenvalues and eigenvectors.
All objectives address the Content Knowledge program objective, Objectives 3-6 address the Proof program objective, All objectives address Problem Solving program objectives.

MU Americans-with-Disabilities-Act Statement: Any students with documented psychological or learning disorders or other significant medical conditions that may affect their learning should work through Mr. William Chabala in our Counseling Center (South Hall 216, Phone: 662-4798; e-mail wchabala@mansfield.edu) to provide me with the appropriate letter so that I may serve their particular needs more effectively. If you have an exceptionality that requires classroom or testing accommodations, Mr. Chabala will work with us to identify and implement appropriate interventions.