

SYLLABUS FOR MA 103, FINITE MATH

Prof. Hal Martin

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Office Hours: 8:30 – 8:50 A.M., Monday through Thursday;

1:00 – 1:50 P.M., Monday through Friday,

and by appointment.

Text: *Finite Mathematics* by Berresford and Rockett

Prerequisite: A C– or better in MA 100 or a suitable grade on the math placement test.

Course Description: This course is designed primarily for students in business and the social sciences and psychology. MA 103 builds on algebraic skills learned in MA 100 or equivalent courses. There are four main components to the course: theory of interest (Chapter 2), matrix algebra (Chapter 3), linear programming (Chapter 4), and probability (Chapter 5). We do not have time in this course to cover each of these topics in depth. Therefore, the course consists of a brief introduction to each of these subjects. More advanced courses cover each of these topics in greater detail.

The ideas in Chapter 1 are important in many places throughout Chapters 2 through 5. We will spend the first two weeks of the semester studying the ideas in Chapter 1. There are fourteen weeks of classes in the winter semester, seven before the semester break and seven afterwards. We will spend three weeks each on Chapters 2 through 5. There will be five hour long exams, one at the end of each of the five chapters that we will cover. In addition, there will be a two hour comprehensive exam during the final exam week.

Course Outline:

Week 1: Chapter 1, Sections 1.1 – 1.4.

Monday 01/14/08 Section 1.1.

Tuesday 01/15/08 Section 1.2.

Wednesday 01/16/08 Section 1.3.

Thursday 01/17/08 Section 1.4.

Week 2: Chapter 1, Sections 1.5 – 1.6.

Monday 01/21/08 Section 1.5.

Tuesday 01/22/08 Section 1.6.

Wednesday 01/23/08 Review.

Thursday 01/24/08 Exam 1, Chapter 1.

Week 3: Chapter 2, Sections 2.1 – 2.2.

Monday 01/28/08 Section 2.1.
Tuesday 01/29/08 Section 2.2.
Wednesday 01/30/08 Section 2.2.
Thursday 01/31/08 Section 2.2.

Week 4: Chapter 2, Section 2.3 – 2.4.

Monday 02/04/08 Section 2.3.
Tuesday 02/05/08 Section 2.3.
Wednesday 02/06/08 Section 2.4.
Thursday 02/07/08 Section 2.4.

Week 5: Chapter 2, Problems from Sections 2.2 – 2.4.

Monday 02/11/08 Problems.
Tuesday 02/12/08 Problems.
Wednesday 02/13/08 Problems.
Thursday 02/14/08 Exam 2, Chapter 2.

Week 6: Chapter 3, Sections 3.1 – 3.3.

Monday 02/18/08 Section 3.1.
Tuesday 02/19/08 Section 3.2.
Wednesday 02/20/08 Section 3.2.
Thursday 02/21/08 Section 3.3.

Week 7: Chapter 3, Sections 3.3 – 3.5.

Monday 02/25/08 Section 3.3.
Tuesday 02/26/08 Section 3.4.
Wednesday 02/27/08 Section 3.4.
Thursday 02/28/08 Section 3.5.

Semester Break

Week 8: Chapter 3, Sections 3.5 and 3.6.

Monday 03/10/08 Section 3.5.
Tuesday 03/11/08 Section 3.6.
Wednesday 03/12/08 Section 3.6.
Thursday 03/13/08 Exam 3, Chapter 3.

Week 9: Chapter 4, Sections 4.1 – 4.2.

Monday 03/17/08 Section 4.1.
Tuesday 03/18/08 Section 4.2.
Wednesday 03/19/08 Section 4.2.
Thursday 03/20/08 Section 4.2.

Week 10: Chapter 4, Section 4.3.

Monday 03/24/08 Section 4.3.
Tuesday 03/25/08 Section 4.3.
Wednesday 03/26/08 Section 4.3.
Thursday 03/27/08 Section 4.3.

Week 11: Chapter 4, Section 4.4.

Monday 03/31/08 Section 4.4.
Tuesday 04/01/08 Section 4.4.
Wednesday 04/02/08 Review.
Thursday 04/03/08 Exam 4, Chapter 4, Sections 1 – 4.

Week 12: Chapter 5, Sections 5.1 and 5.2.

Monday 04/07/08 Section 5.1.
Tuesday 04/08/08 Section 5.1.
Wednesday 04/09/08 Section 5.2.
Thursday 04/10/08 Section 5.2.

Week 13: Chapter 5, Sections 5.3 – 5.4.

Monday 04/14/08 Section 5.3.
Tuesday 04/15/08 Section 5.3.
Wednesday 04/16/08 Section 5.4.
Thursday 04/17/08 Section 5.4.

Week 14: Chapter 5, Problems from Sections 5.1 – 5.4.

Monday 04/21/08 Problems.
Tuesday 04/22/08 Problems.
Wednesday 04/23/08 Problems.
Thursday 04/24/08 Exam 5, Chapter 5, Sections 5.1 – 5.4.

Final Exam Week 9:00 A.M. CLASS, MONDAY APRIL 28, 8:00 A.M. – 9:50 A.M.
10:00 A.M. CLASS, THURSDAY MAY 1, 10:00 A.M. – 11:50 A.M.

Grading:

The lowest of the five hourly exam scores will be dropped. The final exam grade will count as 50%.

The usual grading scheme will be followed: 93 – 100 is an A; 90 – 92 an A-; 87 – 89 is a B+; 83 – 86 a B; 80 – 82 a B-; 77 – 79 a C+; 73 – 76 a C; 70 – 72 a C-; 67 – 69 a D+; 63 – 66 a D; 60 – 62 a D-; less than 60, an F. This scheme of grading is a minimum guarantee. Normally some kind of a curve is applied so that in practice the grading is a little more liberal than indicated above.

Laptop Policy: The use of laptops and other electronic devices, except for hand held calculators, will not be permitted during exams. When you are in class, I expect your undivided attention. Therefore, the use of laptops during class periods is not permitted.

Attendance Policy: You have a responsibility to show up. I frequently take attendance, and poor attendance can adversely effect your grade. (Missing more than three classes without good cause is poor attendance). **Make-up exams are given only under extreme circumstances.**

Note:

This course satisfies the Foundation of Natural Science/Mathematics requirement. Students who complete this course should be able to demonstrate a basic understanding of mathematical logic; use mathematics to solve scientific or mathematical problems in college classes; express relationships in the symbolic language of mathematics; and appreciate the role of probability and statistics in analyzing natural phenomena.

Disability Services:

If you have a need for disability related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office by: coming into the office at 2001 C.B. Hedgcock; or calling 227-1700; or e-mailing disserv@nmu.edu. Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state and university guidelines.
