

MAT 183 - Elements of Modern Mathematics

Syllabus Spring 2009
Section 100 MWF 11:40-12:35
Heroy Auditorium

Course Instructor: Prof. Douglas Anderson
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Office: 304B Carnegie *Ext:* 1491
Office hours: TBA

Course Description: This course is designed for students in the School of Management. The course will involve no calculus, and a thorough background in high school mathematics is the only prerequisite. The course has three main components: Linear Algebra, Probability Theory, and Mathematics of Finance.

Text: Goldstein, L. J., Schneider, D. I., & Siegel, M. J. (2004). *Finite mathematics and its applications* (9th ed.). Upper Saddle River, NJ: Prentice Hall.

Online Homework System: All homework will be done using the online homework system, WebAssign for which you are required to purchase an access code. You may do so either at the campus bookstore or online at www.webassign.net. You should access this system as soon as possible and begin your first assignment.

Calculator: You are required to own a TI-83 or TI-84 graphing calculator. It will be used regularly in this course. It may be used on all homework, quizzes, tests and the final exam. You should bring your calculator with you to class and to recitation. While the main techniques will be demonstrated in class, it is up to you to become proficient with the calculator on your own. **The TI-83 and TI-84 are the only calculators that may be used on a test or the final exam** without prior approval from your instructor.

Electronic Devices: No electronic device other than the TI-83/84 may be used on any quiz, test, or final exam. All electronic devices other than the TI-83/84 should be turned off and put away during class.

Grading Policy: Your final grade will be based on the final exam, three tests, and quizzes and homework, as follows:

Final Exam	20%
3 Tests	60%
Quizzes and homework	20%

Letter grades will be assigned as follows:

A	93 - 100 %	C+	77 - 79 %
A-	90 - 92 %	C	73 - 76 %
B+	87 - 89 %	C-	70 - 72 %
B	83 - 86 %	D	65 - 69 %
B-	80 - 82 %	F	0 - 64 %

Final Exam: The Final Examination Block 12 (8:00 a.m. – 2:30 p.m. on Monday, May 4, 2009) is reserved for mathematics courses numbered below 400. Your final examination will take place during a two-hour block within the above time interval. **Every student must take the exam at that time - no exceptions will be permitted!**

DO NOT PLAN TO LEAVE CAMPUS BEFORE 2:30 P.M. on May 4, 2009.

The final exam is comprehensive; it will have three parts, corresponding to the three units of the course.

Tests: There will be three tests during the semester. **NO makeup tests will be given.** If you have an excused absence from a test, the portion of the final exam corresponding to the missed test will be substituted for your missing test score.

Quizzes: Quizzes will be given every week in recitation. Quizzes will be occasionally given during lecture.

Class Preparation, Homework and Recitations: You are expected to read the appropriate section of the text *prior* to the class in which that material is discussed. You should try to work through the examples in the text. After the class presentation, you should re-read the material and work through the assigned problems.

The *only* way to learn mathematics is to *do* mathematics!

- At the end of each section in the textbook is a short set of practice problems. After reading the section, you should work out these practice problems!
- You should work out and carefully write up all of the assigned exercises! A small portion of each week's class and most of recitation will be devoted to discussing these problems and others! Clearly, only a few problems can be worked out in detail. Usually the instructor will simply describe the basic steps in the solution of the problem. You must fully complete each problem, plus any additional problems that you need to further your own understanding of the material.
- You will be assigned to a homework group in your recitation. You should work with the members of your homework group to assure that you can do and understand all of the

assigned problems. Most students find it beneficial to study for the tests with the members of their homework group.

Attendance: Students are expected to attend every lecture and every recitation and are responsible for any announcements made during lecture. Changes to assignments may be announced in class.

Help: The Math Help Clinic is held in the large reading room on the second floor of Carnegie Hall. The hours will be posted shortly after the semester begins. A copy of the solution manual is available in the Math Library in Carnegie Hall. Help is also available from your class instructor and your recitation instructor during their office hours which will be announced during the first week of class.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>.

Students with Special Needs: Students who need special consideration because of any sort of disability are urged to talk with their instructor as soon as possible, so that accommodations can be made. In order to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 (TDD: 443-1371) and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance. For more information about services and policy, see <http://disabilityservices.syr.edu>.

Course Supervisor: Professor Douglas Anderson, phone: 443-1491, email: danderso@syr.edu. If you have any problems with this course, please discuss them first with your instructor. Any problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor without delay.