

MONTGOMERY COLLEGE
Rockville Campus
Department of Mathematics
Spring, 2007

MA 110 CRN 33755
MWF 10 - 10:50 am

Survey of College Mathematics
Room 227 Science East

Instructor: Joyce Riseberg

Office: 213F Science East

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homepage: www.montgomerycollege.edu/~jriseber

Office Hours: Monday, Tuesday, Wednesday, and Thursday, 11 - 11:50 am; other hours **readily** available by appointment; **please ask.**

Course description: A general college mathematics course whose topics include linear equations, matrix algebra, linear programming, probability, Markov chains, and mathematics of finance. The applications are primarily from business, economics, and the life sciences. Emphasis is on developing, analyzing, and interpreting mathematical models.

MA 110 can be used to fulfill the general education foundation requirement at Montgomery College and can also be transferred as a general education mathematics course to any Maryland public institution of higher education. MA 110 is not intended to prepare students for Precalculus (MA 180) or Calculus (MA 181 or MA 160).

Prerequisite: A grade of C or better in MA 100, 101, 103, appropriate score on mathematics assessment test, or consent of department. Assessment levels: EN 101/101A, RD 120.

POLICIES:

1. **COURSE WEBSITE:** Important course information, including assignments, worksheets, review sheets, quiz/test announcements, and mathematics links, will be posted on a course website. You can access this website by first going to my homepage at **www.montgomerycollege.edu/~jriseber**. You can also go to the College's homepage at **www.montgomerycollege.edu**, and then go to *Finding People or Offices*, (under "Do you need help with...?"), *People* and enter my last name. From my homepage, click the link for MA 110.

The first time you go to my MA 110 homepage, click the link to log in. This will take you to a form that you should submit to show you have been to my MA 110 homepage. You will then be told that you have successfully logged in and can click the link to return to the MA 110 homepage. You should add this site to your list of bookmarks or favorites, and check the site periodically, especially if you are late or absent.

2. **ATTENDANCE/LATENESS:** You are expected to attend every class, to arrive on time, and to stay for the entire class period. It is disruptive to others when students arrive late or leave early. If you must miss a class, it is your responsibility to inform me of the reason for your absence, and to go to the MA 110 homepage to learn what happened during the class. **You should log in and then obtain handouts and do all assignments. You are expected to be prepared for quizzes and tests even if you are absent.**

Students who miss more than one week's worth of classes may be dropped. Please note also that if you are late twice, it will count as the equivalent of one absence. **If for any reason you must be absent for an extended period of time, contact me to discuss the situation or you may be dropped from the course.**

3. **CLASSROOM CONDUCT:** Every student is expected to behave in ways that promote an atmosphere conducive to learning. This includes respect for other students and for the instructor. Please observe common courtesies. **Turn off beepers and cell phones, sharpen your pencils before class, and once in class, please do not get up to leave the room except in an emergency.**
4. **GROUP WORK:** Periodically, you will be working with other members of the class in groups. You are expected to participate actively in any group activities.
5. **HOMEWORK: DO IT!** Homework is assigned daily and should be done by the next class. **You will not be able to pass this course unless you do your homework regularly.** Stay up-to-date, complete all assignments, and **promptly seek help when needed.** Keep an organized notebook for homework and notes. Many students find it useful to work with one or more classmates. For extra help from me, please see me in my office.
6. **ON-LINE PRACTICE QUIZZES:** Practice quizzes for many of the sections covered in this class are available on-line. To access these quizzes, go to the MA 110 homepage and click *MA 110 Practice Quizzes*. These quizzes give you an opportunity to solve problems on your own and to find out if you have done them correctly. Each quiz has a multiple-choice format. After working out the problem and choosing an answer, you will be given immediate feedback, including hints as to what you might have done wrong if you have not chosen the correct answer. If you choose "None of the answers given; click to see the solution" a full solution of the problem will be shown. Your scores on these quizzes are for your information only and do not count as part of your grade. You can use the quizzes to help you prepare for in-class testing.
7. **MATH/SCIENCE CENTER:** Another place where you can get extra help in mathematics is in the Math/Science Center, which is in Room 02 Macklin Tower. This semester, the Math/Science Center hours are:
Mon: 9 am - 7 pm, Tues - Thurs: 8 am - 8 pm, Fri: 8 am - 4 pm, Sat: 10 am - 3 pm
In the Math/Science Center, you can get assistance from individual tutors or by using course-related materials.
8. **TESTS/QUIZZES/FINAL EXAM:** There will be three unit tests, each worth 100 points. Tests will be announced one week in advance. (See below for approximate dates.) Quizzes are given in between tests. They will usually be announced a class or two in advance. Your quiz average will count as the equivalent of one unit test. (The lowest quiz grade is dropped.) The final exam will cover the entire course. It must be taken by everyone and is worth 150 points.
9. **ACADEMIC HONESTY:** All students are expected to do their own work on quizzes and tests. Students are expected to observe the following rules during any test or quiz.
- Students may not use or even hold a cell phone or any other electronic device.
 - Students may not speak to or share materials with other students.
 - Students should have all materials ready at the beginning of the quiz or test.
 - Students should remain in the room during the entire test or quiz.
- Appropriate penalties will be imposed for breaches of academic honesty.
10. **MAKEUPS:** If you know in advance that you have to miss a quiz or test, you can make arrangements with me to take the quiz or test **before** it is given in class. Otherwise, no makeup quizzes will be given. If you miss an hour test, it may be made up only if you
- Do not have more than one unexcused absence during the time period covered on the test.
 - Contact me on or before the scheduled test date.
 - Can prove that you have a legitimate excuse.
 - Show me all homework on the relevant material.

If you do not meet these conditions, you will not be permitted to take a makeup test and the percentage equivalent of your final exam grade will be substituted for the grade of the missed test. No student will be permitted to take more than one makeup test.

11. **TEXT AND COURSE OUTLINE:** Barnett, Ziegler, and Byleen, Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, 10th edition; Prentice Hall, 2005

An optional student solutions manual can also be purchased at the bookstore

Course Outline	Approximate Dates
Sections 1.3, 1.4, Group Activities 1 and 2, 3.1 – 3.4; Test 1	January 22 - February 16
Sections 4.1, 5.1, 5.2, 6.2, 6.3, 6.4; Test 2	February 19 - March 26
Sections 7.1 – 7.4, 4.4 – 4.6; Test 3	March 28 - April 23
Sections 10.1, 10.2, Review	April 25 - May 4
Final Examination	Monday, May 7, 10:15 am – 12:15 pm

12. **CALCULATORS:** A graphing calculator is **required** for this course. TI-84/84+ preferred; TI 83/83+ acceptable. Students will usually be permitted to use calculators on quizzes and tests. **The sharing of calculators during quizzes or tests will not be permitted.**

13. **SPECIAL NEEDS:** If you may need an accommodation due to a disability, please make an appointment to see me. A letter from Disability Support Services, located in Room CB122, authorizing your accommodations will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at: www.montgomerycollege.edu/dss/evacprocedures.htm.

14. **IMPORTANT DATES**

January 28	Last date to drop most classes with a refund. (Based on 6 percent of scheduled class meetings.)
February 11	Last date to drop most classes without a grade (Based on 20% of the total number of scheduled class meetings.)
March 12-18	Spring recess for students and faculty
April 15	Last date to drop most classes with a grade of W. (Based on 73% of the total number of scheduled class meetings.)
May 4	Last regular class meeting
May 7 - 13	Final Exams

15. **GRADING:** At the end of the semester, your test grades, quiz average and final exam score are added up and averaged. Your final average will be converted to a letter grade as follows: 90 - 100...A 80 - 89...B 70 - 79...C 60 - 69...D below 60...F

Attendance and class participation will also be used to help determine the final grade, especially for students with borderline averages.

16. **WEATHER:** In case of bad weather, call the College's main number (301-279-5000) and listen to the recorded message, check MC's web page at www.montgomerycollege.edu, or tune in to your radio or TV for emergency closings or delayed opening information. If classes are canceled the day a test or quiz is scheduled, be prepared to take the exam as soon as our class meets once the College has reopened. You can check my web page for special class announcements.