

MAYLAND COMMUNITY COLLEGE
Welcomes You To:
Mat 140.11 – Survey of Mathematics
3 contact hours/3 credit hours
Fall 2005

Course Description:

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

Prerequisites: Mat 070

Corequisites: Mat 140A

Instructor Information

Instructor: Paula Schlesinger
Office Location: Room 258
Telephone Number: 828-765-7351, ext 215
E-mail Address: pschlesinger@mayland.edu
Office Hours: Monday – Friday Noon - 2
Faculty fax: 828-765-2327

Course Information

Meeting days and times: August 18 – December 13, 2005
Tuesday/Thursday 3:30 pm to 4:50 pm, Room 239
Snow Schedule: Our meeting time will not change if Mayland is on a delay schedule
Text and Materials: Blitzer, Robert. Thinking Mathematically. Third Edition.
Upper Saddle River, New Jersey: Pearson/Prentice Hall., 2005.
Resource/LRC materials (if any): N/A
Required supplies: A TI-83, TI-84 or TI-89 graphing calculator is suggested material for this class. A scientific calculator is required material if a graphing calculator is not purchased

Mayland Community College's General Education core courses will provide the essential body of knowledge and skills that enable all degree-level students to perform competently as employees and as contributing members of society.

The Learning Outcomes for the General Ed core courses are for students to:

1. Improve communication in speaking and listening situations needed for college, personal, and work successes
2. Improve communication in writing and reading situations needed for college, personal, and work successes
3. Improve logical, critical, and creative thinking to evaluate evidence and reach a conclusion
4. Increase application of basic computer use skills
5. Increase application of fundamental math skills
6. Increase both independent and collaborative work skills
7. Increase exposure to the diversity of various world groups from both historical and contemporary contexts.

Course Objectives/Competencies:

This course provides an introduction in a non-technical setting to selected topics in mathematics. Students will:

1. Solve practical problems → LO 3, 4, 5, 6
2. Reason and communicate with mathematics → LO 1, 2, 3, 4
3. Work confidently, collaboratively and independently → LO 3, 4, 5, 6
4. Use a calculator accurately and appropriately → LO 1, 4, 5
5. Develop the ability to critically analyze a problem and select the most appropriate method of solution → LO 3, 5, 6

Attendance Policy/Tardiness/Make-Up Work:

Roll will be taken and you are expected to be in class each time it meets. If you must miss a class you are responsible for obtaining notes, arranging for help on any material that you do not understand, and for turning in any work due in a timely manner. If students must miss classes due to weather or for some other excused reason such as a doctor's appointment or sickness, I will trade documented tutoring time for class time. This must be time with an assigned tutor, the math lab, or me.

NOTE: Any student with 4 or more absences that have not been made up will receive a failing grade for the class. Any absences can be made up in the skills lab or with documented time spent with an assigned tutor.

MAYLAND POLICY: If a student misses class for two consecutive weeks without contacting the instructor, the instructor MUST initiate an administrative withdrawal. If this occurs before the end of unconditional withdrawal, the student will receive a W for the class. If this occurs after the end of unconditional withdrawal, the student will receive a WP or a WF depending on their current grade, including zeros for any material missed during their absence from class. The student will not be able to re-register for the class until next semester.

I will not accept any makeup work for any reason after December 9.

Grading Criteria/Tests/Projects:

The final grade will be determined as follows:

Completion grade on homework	100 points
4 tests @ 100 points each	400 points
1 Comprehensive review @ 50 points	50 points
Comprehensive final @ 150 points	<u>150 points</u>
Total points	700 points

Grading Scale:

- A** = (90-100%)
- B** = (80-90%)
- C** = (70-80%)
- D** = (60-70%)
- F** = (59% or less)

Inclement Weather Procedures:

Students must use wisdom and discretion in case of inclement weather considering the area in which we live. While this is college and students are expected to attend class, it is not advisable for students to risk bodily harm or property damage to attend. It is possible that day classes can be cancelled, but night classes will be held, or vice versa. It is necessary that you either call the

school or listen to the radio stations that report school closings to determine whether or not class is being held on any days when the weather is uncertain.

Academic Standards/Student Expectations/Ethics:

Homework & Tests: All homework assignments are due within two classes after the material has been assigned. Late homework will not be accepted after the test on the material has been taken and returned. There will be one drop grade on chapter tests. **You may not drop the final**; however any student who maintains at least a 90 average on all **five chapter** tests may exempt the final. All work must be shown to receive partial credit on any assignment. **NEATNESS COUNTS.**

Test Corrections: *For any test that you receive a grade below 80 you must write test corrections.* If you receive a grade of 80 or higher test corrections are optional. You will not be allowed to retake any test unless you have turned in test corrections and received a grade of at least 95 on your test corrections.

Test corrections consist of, on a separate sheet of paper: for each problem missed:

1. rework the problems missed,
2. write an explanation, in complete sentences, of why you missed the problem and the correct method for working the problem and
3. find a similar problem in the exercises in the book and work that problem.

If you do all three for each problem missed, you will receive a grade on your test corrections, which will be part of your homework grade. *Test corrections must be turned in along with the original test within one week of the date I give the tests back.* If you turn in your test corrections on time and receive a grade of at least 95 on your test corrections, you will be allowed to take a make-up test in the math skills lab.

You may receive help with test corrections from the skills lab, an approved tutor, or from me during my office hours. Test Corrections will be included in your portfolio.

Withdrawal Dates:

Fall 2005

End of Unconditional Withdrawal	Friday, September 23, 2005
End of Conditional Withdrawal	Tuesday, November 1, 2005

Additional Information:

If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period, an administrative withdrawal will be submitted by the instructor. The student will not be permitted to re-enroll in the class.

Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

Remember! Procrastination on your part does not constitute an emergency on my part!

Course Outline/Weekly Topics

Tentative

Date assigned: Sec:

Assignments:

8/18	2.1	2 through 82, every other even
8/18	2.2	2 through 74, every other even
8/23	2.3	2 through 70, every other even
8/23	2.4	2 through 74, every other even
8/25	2.5	1 – 8, all, 10 through 26, every other even
8/25	3.1	2 through 38, even
8/30	3.2	2 through 62, every other even
8/30	3.3	2 through 36, even
9/1	3.4	2 through 70, every other even
9/1	Essay #1 due	
9/6	3.5	2 through 74, every other even
9/6	Review Chapters 2 and 3	
9/8	Test on Chapters 2 and 3	
9/13	6.1	2 through 78, every other even
9/13	6.2	2 through 90, every other even
9/15	6.3	2 through 34, even, 36 through 48, every other even
9/20	6.4	2 through 22, every other even, 24 through 40 even
9/20	6.5	2 through 66, every other even
9/20	Essay #2 due	
9/22	Review Chapter 6	
9/27	Test on Chapter 6	
9/29	8.1	2 through 34, every other even, 36 through 68, even
9/29	8.2	2 through 30, even
10/4	8.3	2 through 34, every other even
10/4	8.4	2 through 20, even, 30
10/6	8.5	2 through 10, even
10/6	8.6	2 through 8, even
10/10 – 11	Fall Break – No Classes	
10/13	Review Chapter 8	Test on Chapter 8
10/18	Essay #3 due	
10/18	9.1	2 through 70, even
10/18	9.2	2 through 48, even
10/20	9.3	2 through 78, every other even
10/20	10.1	2 through 32, even
10/25	Essay #4 due	
10/25	10.2	2 through 44, even
10/25	10.3	2 through 44, even
10/27	10.4	2 through 40, even
10/27	10.5	2 through 36, even
11/1	Essay #5 due	
11/1	Review Chapters 9 and 10	
11/3	Test on Chapters 9 and 10	
11/8	11.1	2 through 22, even
11/10	11.2	2 through 54, every other even
11/15	11.3	2 through 40, even
11/15	11.4	2 through 62, every other even
11/17	11.5	2 through 18, even
11/22	11.6	2 through 70, every other even
11/22	11.7	2 through 70, every other even
11/24-25	Thanksgiving Holiday College Closed	
11/29	12.1	2 through 30, even
11/29	12.2	2 through 58, every other even
12/1	Review Chapters 11 and 12	
12/6	Test on Chapters 11 and 12	
12/8	Final Review	
12/13	Comprehensive Final exam	