

School of Mathematics and Natural Sciences

Course Syllabus

Survey of Mathematics, MATH 1003

(ACTS : MATH 1003)

INSTRUCTOR
OFFICE HOURS

OFFICE

Course Description: A main objective of this course is that the student will see and be able to use mathematics as a powerful tool in solving problems that commonly arise in today's world. Additionally students should be able to analyze situations and make informed decisions about events that are quantitative in nature.

Course Prerequisite: At least one of the following:

1. An ACT Mathematics score of 19 or higher.
2. A grade of C or better in Math 183: Intermediate Algebra
3. A quantitative score of 460 or higher on the SAT
4. An ASSET score of 39 or higher
5. A COMPASS score of 41 or higher
6. Passing the UAM math placement test for MATH 1043 College Algebra (ACTS: MATH 1103)/ MATH 1003 Survey of Mathematics (ACTS: MATH 1003–College Math)

Required Text and Materials:

- (1) Mathematics All Around (customized edition) by Thomas L. Pirnot which is packaged with MyMathLab.
- (2) Practice Problems for Survey of Mathematics by Lowell F. Lynde, Jr.
- (3) A calculator having GRAPHING and STATISTICAL capability (Recommended: Texas Instruments TI-83, TI-83 Plus, or TI-84).
- (4) Students must provide scantrons for all tests.

Learning Outcomes: By the end of this course, you should be able to:

1. Communicate in the language of sets, compare sets, use set operations, and master survey problems.
2. Use various counting methods, understand the fundamental counting principle, use permutations, combinations, and Pascal's triangle for counting applications.
3. Understand probability theory, complements and unions of events, conditional probability, intersections of events, expected value, and complete binomial experiments.
4. Organize and visualize data, calculate and use measures of central tendency and dispersion, understand and create normal distribution graphs.

Grading: There is a maximum of 550 points to earn. Grades are assigned on the following basis:

Test # 1 (Sets)	100 points
Test # 2 (Counting)	100 points

Test # 3 (Probability)	100 points
Test # 4 (Statistics)	100 points
Quizzes/Homework	100 points
Final Exam (Friday, May 2, 8-10 A.M.)	100 points

Final grades are assigned according to the following scale:

A: 90 – 100% B: 80-89% C: 70-79% D: 60 – 69% F: 0 – 59%

Homework: Homework and quizzes for this class will be done online using MyMathLab, an online program available for users of the textbook adopted for this course. Students will need to purchase this program which comes bundled with the customized text available at a bookstore or which can be purchased online. After purchasing the access code, students should do the following:

*Go to www.mymathlab.com <http://www.coursecompass.com> and click on the REGISTER button for students.

*Follow the on-screen instructions to enter the following information:

Instructor's course code: **fox68575**

Student access code: (available when MyMathLab has been purchased)

Provide contact information

Create login name and password

* Grades will be posted on MyMathLab

Policies:

1. Failure to take the final exam will result in an F for the course.
2. There will not be any make-up exams, quizzes, or homework.
3. The lowest four quiz grades will be dropped. There will be no extensions granted for quizzes. It is your responsibility to have an updated computer with a reliable internet connection that is compatible with the software used on MyMathLab.
4. If a test is missed, the final exam percentage will replace the first missed test score. If more than one test is missed, the student will receive a zero for the 2nd and subsequent missed tests. If no tests are missed, the final exam score, if higher, will replace the lowest test score.
5. If you will miss an exam due to a University extracurricular activity, **you must arrange to take the exam before the scheduled test date.** If you fail to do this, it will be treated as a regular missed exam.

6. Attendance will be recorded. A **last date of attendance** will be reported to the registrar's office for a student with 6 absences. This may result being dropped from this class.
7. The use of cell phones and/or other electronic devices for educational purposes during lecture is allowed. The use of cell phones and/or other electrical devices for communication and/or entertainment purposes during lecture is not allowed.
8. The use or presence of a cell phone and/or other electronic devices with the exception of a graphing calculator during test periods is **strictly not allowed**. Students that violate this policy will **receive an F for the exam**.

Important Dates:

January 8 (Wed) - First day of classes for sessions 1 and 8W1 classes. Admission application deadline.

January 10 (Fri) - Last day to register or add classes.

January 20 (Mon) - Martin Luther King Holiday. Offices and classes closed.

March 19 (Wed) - Last day to drop a Spring 2014 (session 1) class or withdraw from the

March 24-28 (Mon-Fri) - Spring Break.

April 7 (Mon) - Preregistration for Summer and Fall 2014 begins.

April 18 (Fri) - Preregistration for Summer and Fall 2014 ends.

April 29 (Tues) - Last day of classes (sessions 1 & 8W2).

April 30 - May 6 (Wed-Tues) - Final exam period.

May 9 (Fri) - Commencement.

Students with Disabilities:

It is the policy of the University of Arkansas at Monticello to accommodate individuals with disabilities pursuant to federal law and the University's commitment to equal educational opportunities. It is the responsibility of the student to inform the instructor of any necessary accommodations at the beginning of the course. Any student requiring accommodations should contact the Office of Special Student Services located in Harris Hall Room 120; phone 870 460-1026; TDD 870 460-1626; Fax 870 460-1926. McGehee: Office of Special Student Services representative on campus; phone 870 222-5360; fax 870 222-1105. Crossett: Office of Special Student Services representative on campus; phone 870 364-6414; fax 870 364-5707. UAM will no longer mail grade reports to all students. You may access your grades through *Weevil Net* on the UAM homepage, <http://www.uamont.edu/>.

Student conduct statement:

Students at the University of Arkansas at Monticello are expected to conduct themselves appropriately, keeping in mind that they are subject to the laws of the community and standards of society. The student must not conduct him/herself in a manner that disrupts the academic community or breaches the freedom of other students to progress academically.

Academic dishonesty:

1. Cheating: Students shall not give, receive, offer, or solicit information on examinations, quizzes, etc.

2. Collusion: Collusion is defined as obtaining from another party, without specific approval in advance by the instructor, assistance in the production of work offered for credit to the extent that the work reflects the ideas of the party consulted rather than those of the person whose name is on the work submitted.
3. Duplicity: Duplicity is defined as offering for credit identical or substantially unchanged work in two or more courses, without specific advanced approval of the instructors involved.
4. Plagiarism: Plagiarism is defined as adopting and reproducing as one's own, to appropriate to one's use, and to incorporate in one's own work without acknowledgement the ideas or passages from the writings or works of others.

For any instance of academic dishonesty that is discovered by the instructor, whether the dishonesty is found to be cheating, collusion, duplicity, or plagiarism, the result for the student(s) involved will be a grade of 0 for any and all such activities.