

SPRING SEMESTER 2011

COURSE: MATH 1111

CRN: 30301

INSTRUCTOR: Lori Pearman

TEXT: COLLEGE ALGEBRA Concepts Through Functions by Sullivan

OFFICE: Britt 217 PHONE: 391-5118 E-mail: lpearman@abac.edu

STUDENT EVALUATION: Exams 65%
 Daily (MML h.w./quizzes) 15%
 Final Exam 20%

PREREQUISITE: Students who have a learning support math requirement must successfully complete a learning support math course before taking college algebra.

MATERIALS: A notebook of completed assignments should be kept for daily study and test review. You will also need to purchase a TI-83 graphing calculator and MyMathLab.

HOMEWORK: Every daily assignment should be completed. The only way to learn math is to do it. The amount students learn in the course will be proportional to the amount of time spent doing problems.

ABSENTEEISM: Students are expected to attend all class meetings scheduled in the courses for which they are registered. Absence from class for any reason does **not** excuse students from **full responsibility** for class work or assignments missed.

No test will be dropped. However, the lowest test score may be replaced by the final exam score, provided the final exam score is higher than the lowest test score. Only one exam score will be replaced. In cases where the student fails to take an exam, that score (0) may be replaced as the lowest score. Make-up tests will be given only in extreme circumstances. Students missing more than a week's worth of class will have their lowest test replaced only at the discretion of the instructor.

Attendance will be taken at the beginning of class. If a student is tardy, it is his or her responsibility to tell the instructor at the end of class so that the absence can be changed to a tardy. In the division of science and mathematics, **two tardies is equivalent to one absence.**

OFFICE HOURS: If you need my help, please come by my office S-217 in Britt hall. My office hours are as follows:

Monday 10-11

Tuesday 9-9:30, 12-12:30, 2-3:30

Wednesday 10-11

Thursday *9-9:30, 12-12:30, 2-3

Friday **10-11 (AAC)**; 11:30-3

*Make appointment the day before if coming by Thursday morning

EXAMINATIONS: Students enrolled in classes in the Division of Science and Mathematics will be expected to demonstrate an understanding of subject matter requiring higher order processing skills. Examination questions may include essay, synthesis, analysis, and application; as well as completion, multiple choice, true false, and matching. Computational skills and drawing or diagramming may also be required. Wearing of baseball caps or other headgear on test days is not to be permitted in the Science/Math division.

Cell phones, pagers and all other electronic communication devices must be turned OFF during each class or laboratory session.

WITHDRAWALS: Refer to the ABAC catalog. The last day to withdraw without penalty is March 2.

DISABILITIES: Reasonable accommodations will be made to students who have proper documentation and inform the instructor at the beginning of the course.

DISHONESTY: ABAC's policy on academic dishonesty is in the college catalog (pages 47-49 of online catalog). Cheating will not be tolerated.

OUTCOMES:

1. Demonstrate the ability to graph, compute with, and solve application problems with the set of real numbers, and simplify expressions with complex numbers
2. Graph and operate with basic functions; demonstrate the ability to use the field properties of \mathbb{R} , identities, inverses, and commutativity for these operations
3. Demonstrate the ability to use the remainder theorem, factor theorem, and the fundamental theorem of algebra to solve polynomial and rational equations and inequalities
4. Determine coordinates and interpret uses for the following functional notions: zeros, relative maximums and minimums, points of inflections, and intervals of increasing or decreasing values
5. Use a graphing calculator to model real life problems with functions by organizing, analyzing, interpreting, and making inferences from ordered pairs of data. This will include modeling with both polynomial and exponential regression and the use of correlation coefficients.
6. Demonstrate the ability to transform information from one representational system to another (verbal, numeric, graphs, symbolic)