

Southern Arkansas University Tech
P.O. Box 3499 ~ East Camden, AR 71701 ~ 870-574-4500
www.sautech.edu

Online Course Information Form

Course Number: MATH1023

Course Title: College Algebra

Course Description: This course covers a wide range of mathematical topics, including equations and inequalities, the Cartesian plane, functions, graphs, polynomial functions, rational functions, conic sections, exponential functions, logarithms, systems of equations and inequalities, matrices, determinants, and sequences. Applications for these topics and the use of graphing calculators will be stressed.

Instructor: Dr. Terry Hutson

Instructor Bio: I have taught Mathematics courses at Southern Arkansas University Tech as a member of the Arts and Sciences faculty since the Fall 1991 semester. I earned my EdD at the University of Memphis, MS at the University of Arkansas, Fayetteville, and BS at the University of Central Arkansas.

Prerequisite: Successful completion of MA1033-Intermediate Algebra or ACT/ASSET placement test score.

Textbook Title: *College Algebra: Concepts and Models*. 5th edition by Larson/ Hostetler/Hodgkins

Learning Outcomes: Students will maintain a 70% average or better in all College Algebra topics to promote success in further studies of mathematics or to successfully complete the general education mathematics requirement for their degree. Topics include:

1. Equations and Inequalities
2. Functions and Graphs
3. Polynomial and Rational Functions
4. Polynomial and Rational Functions
5. Systems of Equations
6. Matrices
7. Sequences, Series, and Probability

Teaching Methodology, including description of interaction between student and instructor:

Instructor utilizes a combination of reading and problem solving from the textbook. Class notes linked as pdf files. Students must show reasonable and satisfactory progress toward completing the required coursework throughout the semester. Students may be dropped from this course for failing to make reasonable and satisfactory progress throughout the semester. Students must also maintain contact with the instructor on a regular basis throughout the semester by sending at least one e-mail every three weeks to report your progress in the course. Students must contact the instructor to report any technical or personal issues that are preventing them from making reasonable and satisfactory progress in the course.

Methods of Testing: Multiple-choice unit exams and lesson quizzes with work submitted for partial credit grading.

Special Attendance Requirements (student contact with instructor, proctored examinations, etc.):

The final exam must be taken at an approved proctor site. Visit the college web site at http://www.sautech.edu/web_based_learning/policies/proc_sites.pdf for more detailed information.

Other Considerations (writing ability, assignments/projects, time considerations, etc.):

Students will need Internet access, MS Word, Adobe Acrobat Reader, and the ability to receive and send e-mail attachments.