Instructors: Dr. Roy Joe Harris  
Department: Mathematics & Statistics  
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Phone: 936-468-1486  
Office: 346 Math  
Office Hours: Monday 8-9, 10-12 and Tuesday 11-1  
Class meeting time and place: Math 209 on MWF 9-9:50 Jan 15—May 8  
The final exam will be during the week of May 4-8.

Text and Materials: *Precalculus*, Version 3.0, by Edward B. Burger, (ISBN 9781453396391) is the required textbook. Each student will need a scientific calculator to use during exams. (No graphing calculators will be allowed during exams.)

Course Requirements: There are weekly quizzes that constitute 15% of your final grade. There will be three in-class exams and a comprehensive final exam. If a student must miss an exam due to an excused absence, special arrangements should be made in advance. Student ID with photo may be required for all exams for any on-campus student. **Cell phones and graphing calculators are not allowed out during exams, even if that is all you brought.** Students are responsible for bringing their own scientific calculator to exams. No music (even through headphones) is allowed during exams. Homework assignments consisting of textbook exercises will be made daily but will not be turned in for a grade.

Communication: I will be in my office for face-to-face meetings as noted above. If you find it more convenient to communicate via email, I will be responding to email daily.

Testing: Dual credit students who are taking this class through interactive video will test on their high school campus. The tentative testing dates are:

Exam 1—February 5  
Exam 2—March 4  
Exam 3—April 8  
Final — Week of 5/4-5/8

Course description: The core of this course is representing problems in mathematical terms then solving them. This is called mathematical modeling. We will particularly focus on solving equations, creating and interpreting functions, and graphically representing mathematical models. We will focus primarily on five models: linear, quadratic, higher polynomial, rational, exponential and logarithmic functions. Since it is difficult to make use of mathematics without being able to read and communicate in the language of mathematics, writing mathematics will be a focus of the course.

Department syllabus: Please read the official Department of Mathematics & Statistics syllabus for MTH 138 at http://www2.sfasu.edu/math/docs/syllabi/MTH138Syllabus.pdf.

Grading Policy: The quiz average will be worth 15% of the student’s final average. Each of exams I, II, and III will constitute 20% of the student's final average and the final exam will constitute 25% of the student’s final average. A final average ranging from 90 to 100 will be an A in the course, 80 to 89 a B, 70 to 79 a C, 60 to 69 a D, and below a 60 will be an F.

Attendance Policy: Students are expected to be in attendance during class time.
Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp.

Withdrawal Grades Semester Grades Policy (A-54)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1.). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/ exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Student Learning Outcomes (SLO):
At the end of MTH 138, a student who has studied and learned the material should be able to:
1. Employ independence of thought in order to obtain solutions to typical algebraic problems. [EEO 1,5]
2. Solve algebraic equations. [EEO 2,5]
3. Demonstrate comprehension of the algebraic properties involved in solving algebraic equations. [EEO 2,5]
4. Read and interpret written mathematics. [EEO 2]
5. Communicate mathematics and logic at a college level. [EEO 3]
6. Use technology to evaluate solutions arrived at mathematically and intelligently interpret the results. [EEO 4]
7. Use functions to model and solve real-world problems. [EEO 1,4]

There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

Exemplary Educational Objectives (EEO):
1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

General Education Core Curriculum
This course has been selected to be part of Stephen F. Austin State University’s core curriculum. The Texas Higher Education Coordinating Board has identified six objectives for all core courses: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives.

SFASU Policy 5.4: The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:
1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;
2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend at least two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.