Instructor: Dr. Roy Joe Harris
Department: Mathematics & Statistics
Email: rharris@sfasu.edu
Phone: 936-468-1486
Office: 346 Math/Nursing
Office Hours: Monday 12-1; Tuesday 11-1
Class meeting time and place: 2211.004; MW 10-10:50 Mathematics 203
2011.624; F 10-10:50 Mathematics 203
August 24—December 11.


Course Requirements: There will be three in-class exams and a comprehensive final exam. Each exam date will be announced at least one week in advance. 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 those who plan to participate remotely, you are required to have internet access. Additionally, you are required to have access to a computer AND a smart phone. You will need to download the Zoom app to your smartphone.

For those who plan to attend class meetings face-to-face, face coverings are required to be worn and social distancing will be observed. I will also wear a face mask during class and during office hours especially when social distancing is compromised.

The Zoom meeting IDs are as follows:
Lecture: 963 0437 9114
Office Hours: 668 960 6486

Course Calendar:
Class begins on August 24 and ends on December 11. The final exam will be during the week of December 7-11.

Course description:
This is a prep course for the calculus sequence. We study properties and graphs of algebraic, exponential, and logarithmic functions as well as linear systems, trigonometric functions, right triangle definitions of the trig functions and their inverses, fundamental trigonometric identities, conic sections, polar and rectangular coordinate systems.

Department syllabus:
Please read the official Department of Mathematics & Statistics syllabus for MTH 233 at *http://www2.sfasu.edu/math/docs/syllabi/MTH140Syllabus.pdf.

Grading Policy:
The homework/quiz average will be worth 15% of the student’s final average, the average of the first three exams will constitute 60% of the student's final average. The comprehensive final exam will be worth 25% of the student's final average. Dr. Harris reserves the right to allow the final exam score to replace a lower exam score. 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 who have 3 or more unexcused absences may have points deducted from their final average.

* Some changes apply.
General Education Core Curriculum

The Texas Higher Education Coordinating Board has identified six core learning objectives: 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.

Student Learning Outcomes (SLO): At the end of MTH 2211/2011 and MTH 2212/2012, a student who has studied and learned the material should be able to:
1. Define "function".
2. Recognize basic functions (including transcendental functions) algebraically and graphically.
3. Identify determining factors of the graph of a function either algebraically or from the graph, including the domain and range, intercepts, asymptotes, and end behavior.
4. Generate composite functions and identify domains/ranges.
5. Define and recognize when a function is one-to-one and explain why this is necessary for a function to have an inverse.
6. Compute the inverse of a function and understand that the domain may need to be restricted in order to do so.
7. Define triangular/circular trigonometric functions.
8. Determine the domains/ranges/graphs of circular trigonometric functions and their transformations.
9. Identify special triangles and values of the trigonometric functions at the standard multiples.
10. Extend the definition of the trigonometric functions and the Pythagorean Theorem to obtain the reciprocal, quotient, and Pythagorean identities.
11. Understand the sum and difference formulas and use them to generate the double- and half-angle formulas.
12. Restrict the domain of the trigonometric functions so that the inverse trigonometric functions may be defined.
13. Solve trigonometric equations.
15. Recognize that the distance formula is an application of the Pythagorean Theorem.
16. Define and analyze the conics: circles, ellipses, parabolas, and hyperbolas.
17. Convert the polar equation of a conic to a rectangular equation and vice versa.
18. Solve basic systems of equations.

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

You should budget 250 minutes per week for classroom time/direct instruction and at least 10 hours of out-of-class work per week for fifteen weeks.

Course Outline: Approximate time spent
- Algebraic Functions 40%
- Transcendental Functions 40%
- Linear Systems 20%

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

Withheld 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, 488-3004 / 488-1084 (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/.