Class Syllabus / Policy  
2020 Fall  
MTH 4330.001  
Advanced Calculus I

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: TTh 9:30-10:45, Mathematics 359  
August 24—December 11.

Text and Materials: A Friendly Introduction to Analysis by Withold Kosmala - 2nd Ed. A scientific calculator is required.

Course Requirements: There will be three in-class exams and a 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 is: 956 0935 5934

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:  
Elements of point set theory and an in-depth study of the basic ideas of sequences, limits, continuity and differentiability.

Department syllabus:  
Please read the official Department of Mathematics & Statistics syllabus for MTH 233 at http://www2.sfasu.edu/math/docs/syllabi/MTH439Syllabus.pdf

Grading Policy:  
The homework/quiz average will be worth 47% of the student’s final average, the average of the four exams will constitute 50% of the student's final average. The remaining 3% of the final grade is assigned by Dr. Harris. 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. You will receive the same grade for lab as you do for lecture.

Attendance Policy:  
Students who have 3 or more unexcused absences may have points deducted from their final average.
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 439, a student who has studied and learned the material should be able to:
1. A knowledge of the definitions and characteristics of sequences, limits, continuity, and derivative. [PLO: 1,2,5]
2. A knowledge of the critical theorems of Real Analysis dealing with derivatives. [PLO: 1,2]
3. The ability to do original mathematical proofs. [PLO: 1,3,4]
4. An understanding of the critical connections and differences between sequences and functions of a continuous variable. [PLO: 1,2]
5. The ability to use analytic knowledge to solve problems. [PLO: 3,5]
6. The ability to use the problem-solving process of experimentation, conjecture, and proof. [PLO: 3,1]
7. The ability to communicate mathematics to a heterogeneous audience in both oral and written form. [PLO: 4,5]
8. The ability to use available technology in the problem solving process. [PLO: 4]

Program Learning Outcomes (PLO):

Students graduating from SFASU with a B.S. degree and a major in mathematics will:
1. Demonstrate comprehension of core mathematical concepts.
2. Execute mathematical procedures accurately, appropriately, and efficiently.
3. Apply principles of logic to develop and analyze conjectures and proofs.
4. Demonstrate competence in using various mathematical tools, including technology, to formulate, represent, and solve problems.
5. Demonstrate proficiency in communicating mathematics in a format appropriate to expected audiences.

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, 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/.