Instructor: Trey Smith
Email: trey.smith@angelo.edu
Phone: 325 486 5441
Office: MCS 219A

Office Hours:
MWF: 10:00-11:00, 2:00-3:30
Others by Appointment

Course Schedule
The following is a tentative outline of the material to be covered. I have included the designated test date for each topic. All designated tests are scheduled for Fridays at 9:00 AM (except Q10; see schedule below). I reserve the right to change the material and/or sequence.

Topics by week

1) The Definite Integral
2) Approximation Techniques Q1 (Definite) – 9.3
3) The Substitution Rule Q2 (Substitution) – 9.10
4) Area and Volume Q3 (Area) – 9.17
5) Applications
6) Applications Q4 (Applications) – 10.1
7) Integration by Parts Q5 (Parts) – 10.8
8) Trigonometric Integrals
9) Trigonometric Substitutions, Partial Fractions Q6 (Trig) – 10.22
10) Partial Fractions, Improper Integrals Q7 (Partial) – 10.29
11) Sequences and Series Q8 (Series) – 11.5
12) Power Series Q9 (Power) – 11.12
13) Parametric and Polar
14) Parametric and Polar Q10 (Polar) – 11.23
15) Review
16) Final Exam
Grading

Evaluation and Grades
This is a Standards Based Course; you will need to demonstrate mastery of ten different standards in order to be successful. For each standard there will be a quiz. The rules regarding standards quizzes are listed below:

1. If you pass (70 or better) a quiz on the designated quiz day, you will receive a 90.
2. If you pass a quiz on any other day you will receive a 70.
3. If you never pass a particular quiz, you will receive a 0 for that quiz.
4. You may only take one quiz in a single day.
5. You may only take a designated quiz on a designated quiz day. For example, you may not take Q3 on the day designated for Q6.
6. You must take a particular quiz within a week of your last attempt for that quiz. For example, if you fail Q3, you must retake Q3 within a week.
7. You may retake quizzes 1 through 9 up until Monday, November 22\textsuperscript{nd}. You may retake Q10 up until Friday, December 3\textsuperscript{rd}.

So you will have ten standards grades. Those grades will be averaged. Notice that average will range from 0 to 90 points. The additional 10\% of your grade will be your homework average. I will likely throw out your three lowest homework grades before computing that average.

The final exam will affect your grade in the following way: if you score less than 60\% on the final, your quiz average will be reduced by a letter grade. If you score a 90\% or above on the final, your grade will improve by a letter grade.

Grading System
Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:
A = 90-100 points
B = 80-89 points
C = 70-79 points
D = 60-69 points
F = 0-59 points
Course Information

Course Description
A continued study of calculus of functions of one variable including techniques of integration, improper integrals, applications of the integral, sequences and series, power series, and differentiation and integration of parametric and polar curves.

Prerequisite and Co-requisite Courses
Mathematics 2413

Student Learning Outcomes

1. The students will demonstrate factual knowledge including the mathematical notation and terminology used in this course. Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in Calculus II as they pertain to integrals, parametric equations, series, and polar coordinates.

2. The students will describe the fundamental principles including the laws and theorems arising from the concepts covered in this course. Students will identify and apply the laws and formulas that result directly from the definitions; for example, integral formulas and integration techniques, and applying calculus operations to parametric and polar equations.

3. The students will apply course material along with techniques and procedures covered in this course to solve problems. Students will use the facts, formulas, and techniques learned in this course to calculate areas, volumes, and surface areas; to find lengths of curves; to determine series convergence; to analyze problems in physics.

4. The students will develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related fields. Students will acquire a level of proficiency in the fundamental concepts and applications necessary for further study in academic areas requiring Calculus II as a prerequisite, or for work in occupational fields requiring a background in Calculus II. These fields might include computer science, engineering, the physical and natural sciences as well as mathematics.
Course Delivery

Face to Face
You will be expected to attend class in person. You are responsible for any missed classes which means that you will need to make arrangements with another student or myself to acquire any missed content. All standards quizzes will be administered in person. All homework will be submitted through Blackboard.

Required Texts and Materials
Open Stax Calculus 2 published by Rice University. This text is available for free in a PDF format. The downloadable text is available on my Blackboard page.

Technology Requirements
Access to exams, quizzes, and homework will be through Blackboard. You will need to scan or photograph any written assignments and submit them through Blackboard. So you will necessarily need a computer, iPad or phone with the above capability. A printer would undoubtedly make your life easier, but it is not required.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)
- [Angelo State University Catalog](#)

Academic Integrity
Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s [Statement of Academic Integrity](#).
Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dr. Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against
Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: Incident Reporting Form
Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit the Title IX website.

Information About COVID-19
Please refer to ASU’s COVID-19 (Coronavirus) Updates web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing

1 https://www.angelo.edu/current-students/student-handbook/
2 https://www.angelo.edu/academics/catalog/