Syllabus
Calculus II
Math 2414 - D10
Summer II, 2021

Instructor Information
Dr. Andrew J. Siefker
Office:  MCS 219B
Phone:  486 - 5440 (office)
Email:  andrew.siefker@angelo.edu
Office Hours:  M - F:  2: 30 pm – 4:00 pm, or by appointment.

Major Course Requirements
Prereqs:  Mathematics 2413.
Grading:  • Exams .........................  3 Exams:  22% each
         • Homework and Quizzes ....  12%.
         • Final  .........................  22%;  Friday, August 13.

Note:  I reserve the right to adjust the grading scheme and grading scale for an
individual or the class as warranted. Please note that ASU’s interpretation of
federal law (Buckley amendment) prohibits me from relaying your grades via
phone or email.

Summer Math Lab Hours

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<th>Monday</th>
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<td>Time</td>
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Need a Math Tutor?
Students can login to Upswing to receive online help.

Attendance:
Attendance will be taken but does not count towards your final grade except in
borderline cases.

Disclaimer:
This syllabus is current and accurate as of its posting date, but will not be updated.
For the most complete and up-to-date course information, contact the instructor. Also,
the subject matter schedule listed below is tentative, and subject to change and
adaptation. For current, updated information about course topics, contact the instructor.
Course Policies:

Homework and Quizzes:
Homework is regularly collected and quizzes may be administered. When collected, homework is due when the instructor requests it. Late homework is not accepted for points and receives a grade of ZERO. When given, quizzes count as a homework score and NO MAKE-UP QUIZZES will be given. You must show complete solutions (i.e. all steps and calculations) and write LEGIBLY to receive credit for any problem.

Homework turned in for a grade must follow a specific template. (1) Write the problems in numerical order, in a single column, using only one side of a sheet of paper. (2) Staple multiple sheets of paper together in the upper, left-hand corner. Be certain the problems are in numerical order. (3) Fold your homework longwise so that it opens like a book. Write your name, the course (e.g. Math 2414) and course time (e.g. 8 am), and the homework section number.

Examinations:
You must show complete solutions (i.e. all steps and calculations) and write LEGIBLY to receive credit for any “essay” problem. Scrap paper will be provided upon request; you may not use your own. If you miss or will miss an exam, contact the instructor ASAP. NO MAKE-UP EXAMS will be administered, and the use of calculators is at the discretion of the professor.

Grades:
All grades become final one week after the grade is recorded. Therefore, any questions you may have regarding a grade must be resolved before this one week deadline.

Class Etiquette:
Please be courteous of others in the class including: not utilizing cell phones, silencing cell phones, not habitually arriving late, not leaving during lectures (unless you notify me beforehand), not engaging in non-math related conversations or activities, etc.
Student Disability Services

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 at www.angelo.edu/ADA. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Ms. Dallas A. Swafford, Director of Student Disability Services
Houston Harte University Center
325-942-2047
dallas.swafford@angelo.edu

Title IX

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. Sex discrimination, sexual misconduct, public indecency, interpersonal violence, sexual assault, sexual exploitation, sexual harassment, and stalking are not tolerated at ASU. As a faculty member, I am a Responsible Employee meaning that I will report any allegations I am notified of to the Office of Title IX Compliance in order to connect students with resources and options in addressing the allegations reported. You are encouraged to report any incidents to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Miller, J.D., Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.miller@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.
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.

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.

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.

Plagiarism
Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

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
Student Responsibilities:

1. Students are responsible for the policies and procedures delineated in this syllabus. Failure to abide by these policies and procedures may result in failing the course.

2. If you miss class for any reason, *even for University-sponsored activities*, it is your responsibility to have your assignments submitted on time or ahead of time if necessary. You are also responsible for preparing for the next class. This includes obtaining assignments, announcements, and notes FROM A CLASSMATE.

3. The main keys to success in this course are as follows:
   a. Attending class regularly.
   b. Reading the book and working through the examples.
   c. Taking good notes.
   d. Completing all assignments in a timely manner.
   e. Not falling behind.
   f. Reviewing the material on a regular basis. Studying for this course at least 6 hours per week (more if needed) is what is recommended by learning researchers and is what I expect of you. AT LEAST SEVENTY-FIVE PERCENT OF YOUR LEARNING IS SELF-STUDY.
Some Things to Consider About College Mathematics Courses:

1. **Responsibility** – Though guided by your instructors and advisors, **YOU** are responsible from now on for your own education. **SEVENTY-FIVE PERCENT OF YOUR LEARNING IS SELF-STUDY.**

2. **Peer Group** – Most of you are no longer well above the majority of your classmates. You are in a new environment with people whose abilities are much like your own.

3. **Level of Learning** – The primary goals of a university education are three-fold:
   - 1) to learn essential *thinking skills* so that when you encounter a new or unfamiliar situation you can analyze the problem and carry out the necessary steps to solve it. This is especially important in mathematics since many courses require a mathematical background and expect you to use the material you have studied.
   - 2) to *learn how to learn* on your own, i.e. how to teach yourself through reading, study, discussion, and contemplation.
   - 3) to *develop an appreciation* for topics not directly related to employment. Students who do poorly in college mathematics courses are typically those who fall behind in their work, overestimate their effort, or insist on high-schoolish modes of learning.

4. **Roles of Students and Instructors** – The instructor’s role is to guide the students’ learning process. It is not to cover all aspects of every topic for every student. Students are expected to read the textbook, to learn some material on their own, and to fill in any gaps in their mathematical background. It is not uncommon in college mathematics courses that **MUCH OF YOUR LEARNING WILL TAKE PLACE OUTSIDE THE CLASSROOM.** You should plan to devote at least two hours outside the classroom for every hour of classroom instruction. Teaching and learning in college is a cooperative effort shared by the instructor and the student.

5. **Exams** – Class work and homework are intended to guide you in your task of gaining command of the material covered in this course. This DOES NOT MEAN that the examples you see will be exactly (or essentially) the same as the questions asked on exams. You are expected to prepare yourself for tests and the final exam. If you **UNDERSTAND THE MATERIAL** to the point where you can apply it to pertinent situations, you will do well on exams. If you concentrate on memorization and ad-hoc methods for particular problems, you will probably struggle on exams. There will be no review sessions or elaborate practice sheets to prep you for a test or final exam.
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.

**Textbook:** *Essential Calculus: Early Transcendentals, 2nd ed.* by James Stewart. The following chapters are covered. (See textbook "Contents")

6. **Techniques of Integration.** Integration by parts, trigonometric integrals, trigonometric substitution, completing the square, integration by partial fractions, improper integrals.

7. **Applications of Integration.** Areas, volumes, arc length, applications to physics and engineering.

8. **Series.** sequences and series, convergence tests, power series, Taylor and Maclaurin series.

9. **Parametric Equations; Polar Equations.** Parametric equations: definition, tangents and areas, arc length and surface area; polar equations: definition, areas, and length, conic sections.
**Required Texts or Readings:**
There is no required textbook for this course; however, homework problems from the book will be assigned.

**Subject Matter Schedule**
The subject matter schedule listed below is tentative, and subject to change and adaptation. For current, updated information about course topics, contact the instructor.

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<th>Section to Cover</th>
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<td>1.</td>
<td>Review Derivatives, Differentiation, and Antidifferentiation</td>
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July 12  First Class Day of Summer II 2021

July 13  Last Day to Register or Make Schedule Changes for Summer II 2021

July 16  “W” Period Begins for Summer II 2021
Online drop forms are now required.

August 2  Last Day to Drop/Withdraw from Summer II
The appropriate form must be submitted by 5:00 p.m. Central Time.

August 13  Last Class Day of Summer II 2021

August 13  Final Exams for Summer II 2021

August 16  Grades Due for Summer II by 12:00 p.m. (noon)