MATH 2313 Calculus I – Spring 2019

Instructor Information

**Instructor:** Dr. Susan Abernathy-Taylor  
**Office:** MCS 220i  
**Phone:** 325.486.5442  
**Office Hours:** MW: 8:30-9:00, 11:30-1:00, 2:30-3:30; TR: 3:15-4:30; F: 8:30-9:00, 11:30-12:30; or by appointment  
**Email:** All of the following addresses work. They all go to the same inbox; you need only send an email to one of them.  
- susan.abernathy@angelo.edu  
- susan.taylor@angelo.edu  
- staylor28@angelo.edu

Class Time/Location

Section 010: MWF 9:00-9:50am in MCS 214  
Section 020: MWF 10:00-10:50am in MCS 214

Textbook

*Essential Calculus: Early Transcendentals; 2nd edition* by James Stewart  
ISBN: 9781337759762

**NOTE:**  
Spring 2019 is the last long semester where Math 2313 will be offered. We are switching to a four hour Calculus I class. If you fail Math 2313 and have to retake it, Summer 2019 will be your last chance.

Grading System

Grades will be determined as follows:  
- Tests: 55% (highest two 20%, lowest 15%)  
- Homework: 15%  
- Quizzes: 5%  
- Final Exam: 25%

Final grades will be based on a standard 10-point grading scale (A is 90+, B is 80-89.99, C is 70-79.99, D is 60-69.99, F is below 60). **Final grades will not be rounded or bumped.**

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, email the instructor.

Attendance

Students are expected to attend every class. Attendance will be taken daily, and excessive absences will be reported to the appropriate university authorities.

Homework

Homework sets will be assigned at least once a week. They will be announced in class and posted on Blackboard. **Late homework (homework turned in more than five minutes after class starts) is not accepted.** If you know you will miss class, you may turn in your homework early.
To receive credit for a problem, you must show your work and write legibly. Your lowest three homework grades will be dropped.

**Quizzes**

Short quizzes will be given throughout the semester. Quizzes will usually be announced at least one class day in advance and **no make-up quizzes will be given.** Your lowest quiz grade will be dropped.

**Tests**

There will be three in-class exams. Your highest two test grades will each count for 20% of your overall grade, and your lowest test grade will count for 15% of your overall grade. There will also be a cumulative final exam at the end of the semester. Tentative exam dates are listed below. In general, calculators will not be allowed during exams.

- Test 1: Friday, February 15
- Test 2: Monday, March 25
- Test 3: Friday, April 26
- Final Exam: Section 010 (9am class): Wednesday May 8, 8-10am
  - Section 020 (10am class): Monday May 6, 10:30am-12:30pm

**Make-up Policy**

If you have a conflict with an exam, you must talk to me about it beforehand if possible. If you miss a test, your final exam grade will replace it. You will receive a grade of zero on any subsequent missed tests. Make-up tests will be given (or not) at the discretion of the instructor.

**Student Responsibilities**

The student is solely responsible for:

- **Maintaining academic honesty.**
- **Completing each assignment by the specified due date.**
- **Obtaining assignments and other materials for classes missed.**
- **Positively contributing to the classroom environment.** Be courteous; don’t use your phone in class; be on time; don’t disrupt your fellow classmates.
- **Being proactive about their grade in this course.** You are not given a grade in a college course; you EARN your grade. You may want or need a particular grade to graduate, maintain a scholarship, or stay in athletics, for instance. **It is your responsibility to put in as much effort as it takes to earn this grade.** This includes utilizing (as needed) all available study aid options (going to office hours and/or Math Lab, reading outside textbooks, meeting with the instructor, etc.) to resolve any questions or concerns you might have about any aspect of the course.

**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 (ADAA), and subsequent legislation.
The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu

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. 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 Boone, J.D.  
Director of Title IX Compliance/Title IX Coordinator  
Mayer Administration Building, Room 200  
325-942-2022  
michelle.boone@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. The full details can be found in ASU Operating Policy OP 10.19 Observance of Religious Holy Days.
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 Conduct Policies

- **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 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
Daily Schedule
This subject matter listed below is tentative and subject to change. For current information about course topics, please contact the instructor.

1. 1.1
2. 1.1
3. 1.2
4. 1.3
5. 1.3
6. 1.4
7. 1.5
8. 1.5
9. 1.6
10. 2.1
11. 2.2
12. 2.2
13. Review
14. Test 1: Friday, Feb. 15
15. 2.3
16. 2.4
17. 2.4
18. 2.5
19. 2.5
20. 2.6
21. 2.7
22. 2.7
23. 2.8
24. 3.3
25. 3.5
26. Review
27. Test 2: Monday, March 25
28. 3.7
29. 3.7
30. 4.1
31. 4.2
32. 4.3
33. 4.4
34. 4.4
35. 4.5
36. 4.5
37. 4.6
38. 4.7
39. 4.7
40. Review
41. Test 3: Friday, April 26
42. Review
43. Review
44. Review
45. Final Exam

---

Student Learning Outcomes – Math 2313

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 I as they pertain to functions, limits, and derivatives.

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, domain and range of a function, operations on functions, the limit laws, and the differentiation formulas.

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 sketch graphs of functions, to study position-velocity-acceleration problems, to solve related rate and optimization (“max-min”) problems.
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 I as a prerequisite, or for work in occupational fields requiring a background in Calculus I. These fields might include computer science, engineering, the physical and natural sciences as well as mathematics.

Course Content

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


3. Inverse Functions: Derivative of Logarithmic and Exponential Functions, Inverse Trigonometric Functions, Indeterminate Forms and l’Hospital’s Rule.

4. Applications of Differentiation: Maximum and Minimum Values, the Mean Value Theorem, Derivatives and Shapes of Graphs, Curve Sketching, Optimization Problems, Antiderivatives.

Optional Topics: Exponential Functions (3.1), Inverse Functions and Logarithms (3.2), Exponential Growth and Decay (3.4), Hyperbolic Functions (3.6)

---

i Observance of Religious Holy Days: http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of

ii Grading Procedures: http://www.angelo.edu/content/files/14197-op-1011-grading-procedures

iii Academic Integrity: http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php

iv ASU Writing Center: http://www.angelo.edu/dept/writing_center/academic_honesty.php


vi University Catalog: http://www.angelo.edu/catalogs/