MATH 2313 - 030 - Calculus I - Fall 2017

Instructor: Jesse Taylor
Office: MCS 219E
Email: jesse.taylor@angelo.edu
Our Classroom: MCS 216
Meeting Times: 2:00-2:50 MWF

Office Hours: M: 11:00-12:00, 3:00-3:45
T: 9:15-11:00
W: 11:00-12:00, 3:00-3:45
Th: 9:15-11:00
F: 11:00-2:00
and by appointment


Course Content: Selected sections from chapters 1-4 will be covered.

Homework/Quizzes: Homework will be assigned regularly throughout the semester. In general, I will assign problems after each section, and will only grade a selected few every week or so. We will also have quizzes throughout the semester, including the possibility of pop quizzes. Generally quizzes will consist of a couple of problems and will not take more than 10 minutes to complete. **No late quizzes or homework will be accepted.** It is always your responsibility to attend class and know when an assignment is due and to make sure it is turned in or taken on time.

Tests: We will have three tests and a cumulative final exam. Below is a guideline for the tests, which is subject to change. If you have a conflict with one of tests you must let me know **before the test is taken** to ensure that you receive a make-up exam.

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<thead>
<tr>
<th>Test</th>
<th>Material Covered</th>
<th>Date</th>
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<tr>
<td>Test 1</td>
<td>Chapters 1 and 2</td>
<td>September 29</td>
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<tr>
<td>Test 2</td>
<td>Chapters 2 and 3</td>
<td>October 27</td>
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<td>Test 3</td>
<td>Chapter 4</td>
<td>December 1</td>
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<tr>
<td>Final Exam</td>
<td>Cumulative</td>
<td>3:30-5:30pm, Mon Dec 11, 2017</td>
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Grading: Your grade in this class will determined based on the following grading rubric.

- Homework: 15%
- Quizzes: 5%
- Test 1: 20%
- Test 2: 20%
- Test 3: 20%
- Final Exam: 20%

Your final letter grade in this class will be determined based on a ten-point grading scale.
Attendance: Attendance will be taken regularly, and each student’s absences will be reported with their final grade at the end of the semester.

Technology: Unless you have special accommodations documented with the Student Life office, **no** cell phones, tablets, laptops, MP3 players, games, or other electronic devices may be used in the classroom at any time.

Study Aids:
- The Math Lab offers free math help to all students enrolled in mathematics courses through Calculus. The Math Lab is located on the 3rd floor of the library (C302), and its times are listed below.

  Monday – Thursday: 9:00 am - 8:00 pm  
  Friday: 9:00 am - 12:00 pm  
  Sunday: 3:00 pm - 8:00 pm

- The mathematics department maintains a list of students who are interested in tutoring privately. Students who are interested in obtaining private tutoring or serving as private tutors should visit the department office for more information.

- Feel free to come by my office for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.

Notes:
- In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.

- All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made.

- If you do not receive a graded homework assignment or an exam on the day they are returned, please come by my office to pick them up.

- Good luck. I want you to succeed in this course. If at any point during the semester you feel as if you do not understand the material, please come talk with me as soon as possible. An ounce of prevention is worth a pound of cure.

All items and dates in this syllabus are subject to change as the semester progresses. Students will be notified in class of any changes, and the changes will not be updated within this syllabus.
MATH 2313 – Calculus I

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 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")

1. **Functions and Limits:** Functions and Their Representations, A Catalog of Essential Functions, The Limit of a Function, Calculating Limits, Continuity, Limits Involving Infinity.


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),
Below is an approximate guide to what we will cover on each day of the semester. These topics are subject to change.

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<td>3:30-5:30, Mon Dec 11, 2017</td>
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**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.

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**

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU’s Title IX Coordinator:

Michelle Boone  
Director of Title IX Compliance  
325-486-6357  
michelle.boone@angelo.edu

**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. ([http://www.angelo.edu/opmanual/](http://www.angelo.edu/opmanual/) -- OP 10.19)

**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](http://www.angelo.edu/opmanual/)
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