Instructor Information
Instructor: Dr. Susan Abernathy-Taylor
Office: MCS 220i
Phone: 325.486.5442
Office Hours: MWF: 10am-12pm; TR 1:15-2:00pm, 3:15-4:30pm; 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
MWF 12:00-12:50pm in MCS 216

Textbook
Essential Calculus: Early Transcendentals; 2nd edition by James Stewart
ISBN: 9781337759762
You do NOT need a WebAssign access code.

NOTE:
Fall 2019 is the last long semester where Math 2314 will be offered. We are switching to four hour Calculus classes. If you fail Math 2314, that grade will remain on your transcript and you will retake Calc II under the number Math 2414.

Grading System
Grades will be determined as follows:
  Tests: 60% (20% each)
  Homework: 18%
  Final Exam: 22%
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).

Test grades and periodic overall averages will be posted in Blackboard; homework grades will not be posted in Blackboard.

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 is not accepted.** If you know you will miss class, you may turn in your homework early by leaving it in the box outside my office door. To receive credit for a problem, you must show your work and write legibly. Your lowest three homework grades will be dropped.

**Tests**
There will be three in-class exams which will each count for 20% 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: Monday, September 23rd
- Test 2: Wednesday, October 23rd
- Test 3: Wednesday, November 20th
- Final Exam: Monday, December 9th, 1-3pm

**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 (graded or newly assigned) 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 (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 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 Boone, J.D.
You may submit reports in the following manner:

**Online:** [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)  
**Face to face:** Mayer Administration Building, Room 210  
**Phone:** 325-942-2022  
**Email:** michelle.boone@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: [www.angelo.edu/title-ix](http://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](http://www.angelo.edu/title-ix).

**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](http://www.angelo.edu/title-ix) 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](#).vi

- **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](#).vii

- **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](#)viii
- [Angelo State University Catalog](#)ix

**Topics by Week**
This subject matter listed below is tentative and subject to change. For current information about course topics, please contact the instructor.

1. Review of Calc I, approximating area under curves
2. Definite integrals, Fundamental Theorem of Calculus
3. Substitution Rule, regions between curves, velocity, net change
4. Revolutions and volume, review
5. Test 1 (Mon 9/23), revolutions
6. Arc length, log. and exp. equations
7. Integration techniques, trig integrals
8. Integration techniques
9. Review, Test 2 (Wed 10/23), integration techniques
10. Integration techniques
11. Numerical integration, improper integrals
12. Parametric equations, polar coordinates
13. Review, Test 3 (Wed 11/20), Calculus in polar coordinates
14. Conic Sections
15. Review
16. Final Exam (Mon 12/9, 1-3pm)

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Student Learning Outcomes – Math 2314
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, 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 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 Content
Textbook:  *Essential Calculus: Early Transcendentals;* 2nd edition; by James Stewart. The following chapters are covered. (See textbook Contents.)

5. Integrals. Areas, the definition of the definite integral, the Fundamental Theorem of Calculus, properties of the definite integral, indefinite integrals, substitution.

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.

9. Parametric Equations; Polar Equations. Parametric equations: definition, tangents and areas, arc length and surface area; polar equations: definition, areas, and length, conic sections.

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i Report an Incident: www.angelo.edu/incident-form
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iii ASU Title IX: www.angelo.edu/title-ix
iv Observance of Religious Holy Days: http://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
v Grading Procedures: http://www.angelo.edu/content/files/14197-op-1011-grading-procedures
vi Academic Integrity: http://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
vii ASU Writing Center: http://www.angelo.edu/dept/writing_center/academic_honesty.php
ix University Catalog: http://www.angelo.edu/catalogs/