

MAT 265 (41232)

Calculus for Engineers I

M-F, 11:50 AM -1:10 PM, PSA 109

Erica Rutter

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Office Location: PSA 446

Office Hours: TBD

Note: All items of the syllabus are subject to change. Any in-class announcement, verbal or written, is considered an official addendum to the syllabus. The instructor reserves the right to modify any portion of the syllabus, including dates of exams, to meet the needs of students. It is the student's responsibility to attend class regularly to make note of any changes.

Course Description: A first course in calculus. This course will cover limits and continuity, differential calculus of functions of one variable and an introduction to integration

Prerequisite(s): MAT 170 Precalculus with a grade of C or better, or a passing score (67 or higher) on the placement exam.

Credit Hours: 3

Textbook: *Essential Calculus*, Early Transcendentals 2nd Edition, by James Stewart

Important Dates:

7/14	Midterm 1 (in-class)
7/21	Course Withdrawal Deadline
7/27	Mastery Exam (in-class)
8/04	Midterm 2 (in-class)
8/11	Final Exam, Complete Withdrawal Deadline

Grade Distribution:

WebWork	10%
Quizzes	5%
Worksheets	5%
Exam 1	20%
Exam 2	20%
Mastery Exam	15%
Final Exam	25%

Letter Grade Distribution:

Grades are along a straight scale with +/- grading:

≥ 93.00	A	73.00 - 76.99	C
90.00 - 92.99	A-	70.00 - 72.99	C-
87.00 - 89.99	B+	67.00 - 69.99	D+
83.00 - 86.99	B	63.00 - 66.99	D
80.00 - 82.99	B-	60.00 - 62.99	D-
77.00 - 79.99	C+	≤ 59.99	E

Course Policies:

- **General**

- Computers are not to be used unless instructed to do so.
- Quizzes and exams are closed book, closed notes, with the exception of the final exam where students will be allowed one *handwritten* page of notes.
- **No makeup quizzes will be given.**
- Makeup exams are given at the discretion of the instructor and the instructor must be notified *before* the test is given
- **Calculators cannot be used on quizzes or exams!**
- It is expected that students have completed the reading for the day's lecture before class begins.

- **Quizzes**

- Quizzes may or may not be announced ahead of time
- The lowest quiz score will be dropped for each student.
- No cell phone can be out during a quiz or exam. If any student has his or her phone out, the score will automatically be a 0, regardless of the reason.

- **WebWork**

- Students will be assigned Webwork and the due dates are given on the Webwork Site https://webwork.asu.edu/webwork2/Rutter_MAT_265_Summer_2015/
- Webwork assignments will be due at 11:59 pm on the assigned date.
- **No late assignments will be accepted under any circumstances.**
- Written homework may or may not be assigned.

- **Worksheets**

- Worksheets will be uploaded to blackboard before class begins. Students are responsible if they want to print the worksheets for class.
- Worksheets for classes that occur on Monday and Tuesday are due Fridays, and worksheets for classes that occur Wednesday-Friday are due the next Tuesday.
- **No late assignments will be accepted under any circumstances.**
- Worksheets must be written clearly and concisely, with all work shown.
- **Answers without explanation or justification will be given 0, regardless of the correctness of the answer**

- **Midterm Exams**

- Two midterm exams will be given in class
- Midterm exams are closed-book, closed-note
- **No calculators will be allowed on any exams.**
- No cell phone can be out during a quiz or exam. If any student has his or her phone out, the score will automatically be a 0, regardless of the reason.

- **Mastery Exam**

- The mastery exam assess basic differentiation skills and will be administered in-class.
- A score of 85% or higher is considered ‘mastery’ and the student will receive a score of 100% for this exam. If the student scores lower than 85%, it is considered a fail, and the student has a second attempt to pass. Those who pass the mastery on the second attempt with a score of 85% or higher will receive 85% for the mastery exam. Those who do not pass the mastery exam on the second attempt receive 85% of their highest score between mastery exams 1 and 2. The second attempt at the mastery will be given during office hours.
- **No calculators will be allowed on the mastery exam.**
- No cell phone can be out during a quiz or exam. If any student has his or her phone out, the score will automatically be a 0, regardless of the reason.

- **Final Exams**

- Final exam is given in class on August 11
- A **handwritten** one page cheat sheet will be allowed per student, which will be handed in with their exam. Typed sheets will be confiscated.
- **No calculators will be allowed on the final exam.**
- No cell phone can be out during a quiz or exam. If any student has his or her phone out, the score will automatically be a 0, regardless of the reason.

- **Attendance and Absences**

- Students are expected to attend class regularly. Students are responsible for making up all missed work, regardless of the reason for absence.
- Students who exceed the number of allowed absences will receive a grade of EN and will be dropped from the course
- **The maximum allowable number of absences is 3** regardless of whether it is an excused absence or not.

- **Extra Help**

- **Office Hours:** Please feel free to see me during my office hours or email me for an appointment to meet if these hours do not work for you. I am always willing to meet with students to discuss homework problems or any other aspect of the course.
- **Math Tutoring Center:** The Math Tutor Center (free of charge) in PSA 116 is a great resource for students to meet with tutors. The hours of the Math Tutoring center are 10 am- 4 pm M-F. Note that you must present a valid ASU Sun Card to be admitted into the Tutor Center. Website: <https://math.asu.edu/mathtutors>

- **Engineering Tutor Center:** Located in ECF 102, the hours are also 10 am - 4 pm M-F. Website: <http://tutoring.engineering.asu.edu>

Departmental and University Policies and Procedures:

Academic Dishonesty In the Student Academic Integrity Policy manual, ASU defines Plagiarism [as] using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately. You can find more at: <http://provost.asu.edu/academicintegrity> Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other forms of dishonesty.

Course Withdrawal

A student may withdraw from a course with a grade of W during the withdrawal period. The instructor's signature is not required. It is a student's responsibility to verify that they have in fact withdrawn from a class. The course withdrawal deadline is: July 21, 2015.

Grade of Incomplete

A grade of incomplete will be awarded only in the event that a documented emergency or illness prevents the student who is doing acceptable work from completing a small percentage of the course requirements. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed

Instructor-Initiated Drop

At the instructor's discretion, any student who has not attended class during the first week of classes may be administratively dropped from the course. However, students should be aware that non-attendance will NOT automatically result in their being dropped from the course. Thus, a student should not assume they are no longer registered for a course simply because they did not attend class during the first week. It is the student's responsibility to be aware of their registration status.

Honor Policy

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the University or other sanctions as specified in the University Student Academic Integrity Policy. Violations of academic integrity include, but are not limited to cheating, fabrication, tampering, plagiarism, or facilitating such activities. The grade of XE: A grade of XE is reserved for "failure for academic dishonesty."

Ethics

Grades are based only on academic work and are calculated using the same criteria for all students. It is unethical to bring to your instructor's attention the possible impact of your mathematics grade on your future plans, including graduation, scholarships, jobs, etc. For the university's complete policy regarding ethics and other forms of academic dishonesty, see the Student Academic Integrity Policy at the following web address: <http://provost.asu.edu/academicintegrity>

Student Conduct

Students are required to adhere to the behavior standards of the Arizona Board of Regents Policy Manual Code of Conduct, Academic Affairs Manual ACD 125 Computer, Internet, and Electronic Communications, and the ASU Student Academic Integrity Policy.

Tentative Course Outline:

The weekly coverage might change as it depends on the progress of the class. However, you must keep up with the reading assignments. Please complete the reading before the class, as it will be assumed that you have already read the material.

Week	Content
Week 1: 7/1-7/3	<ul style="list-style-type: none">• 1.3 & 1.4: Introduction, Functions, Limits• 1.5 & 1.6: Continuity and Limits Involving Infinity• 2.1: Derivatives and Rates of Change
Week 2: 7/6-7/10	<ul style="list-style-type: none">• 2.2: The Derivative as a Function• 2.3: Basic Differentiation Formulas• 2.4: Product and Quotient Rules• 2.5: Chain Rule• 2.6: Implicit Differentiation
Week 3: 7/13-7/17	<ul style="list-style-type: none">• 7/13: Exam 1: Up to and Including Section 2.5• 2.7: Related Rates• 2.8: Linear Approximation and Differentials• 3.1: Exponential Functions• 3.2: Inverse Functions and Logarithms
Week 4: 7/20-7/24	<ul style="list-style-type: none">• 3.3: Derivatives of Logarithmic and Exponentials• 3.5: Inverse Trigonometric Functions• 3.7: Indeterminate forms and L'Hopitals Rules• 4.1: Max and Min Values• 4.2: The Mean Value Theorem
Week 5: 7/27-7/31	<ul style="list-style-type: none">• 7/27: Mastery Exam• 4.3: Derivatives and Shapes of Graphs• 4.4: Curve Sketching• 4.5: Optimization Problems• 4.7: Antiderivatives
Week 6: 8/3-8/7	<ul style="list-style-type: none">• 5.1: Areas and Distances• 8/4: Exam 2: Up to and Including Section 4.5• 5.2: Definite Integral• 5.3: Evaluating Definite Integrals• 5.4: Fundamental Theorem of Calculus
Week 7: 8/10-8:11	<ul style="list-style-type: none">• Review Session• 8/11: Final Exam