

Syracuse University  
Summer Session I  
Calculus I – MAT295 – Section U800  
4 Credits

**Instructor:** Dr. Amy Potrzeba Macrina

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*Office:* Online via Blackboard Collaborate

*Office Hours:* Mondays 8:30a – 10:30a\* Office Hours are Online via Blackboard Collaborate. Please arrange a meeting at least one day prior with your instructor so that a session can be created and a session link sent to you.

**Prerequisite:** There are no official prerequisites for this course, but students should have a strong foundation in algebra and precalculus. Students who have scored 4 or 5 on the Advanced Placement Calculus BC exam should register for MAT 397 Calculus III.

**Course Materials:** Stewart, J. Essential Calculus: Early Transcendentals (2nd ed). Cengage Learning

- WebAssign access code for submitting on-line homework.  
The ISBN for the bundle (book and WebAssign) is 9781133425946.  
The ISBN for WebAssign (with e-book) is 9781285858265.

**Calculator:** MAT 295-296-397 students are expected to complete the calculus sequence without the use of a calculator. Calculators will not be permitted on quizzes or exams.

**Course Description:** Analytic geometry, limits, derivatives, maxima-minima, related rates, graphs, differentials, exponential and logarithmic functions, mean-value theorem, L'Hospital's rule, integration. For science majors. MAT 295 may not be taken for credit after successful completion of MAT 286.

**Course Format:** This course is administered online. You can be expected to spend approximately 12 hours per week on this course as it is a four credit course. Typically, for every hour of lecture a student attends, two hours of work/studying outside of class is expected. You are expected to do as follows:

- Login to Blackboard each day and check for any new announcements as well as read and complete the tasks outlined in the weekly folder.
- Homework is required and is completed in WebAssign. (More information provided in the homework section).
- Quizzes are required and are completed in WebAssign with the exception of the Syllabus Quiz and Introduction Discussion Board Posting (Quiz Grade) that are in Blackboard.
- Video Lectures are also in WebAssign and there is one for each section. Please review the tasks within each weekly folder for assigned lectures.
- There is a synchronous component to this course (day and time referenced above). While this is not mandatory, it is in your best interest to attend this session.

**Course Objectives:**

As a result of the learning experiences provided in this course, the student should be able to:

- Explain and define the limit of a function at a point, continuity at a point and differentiability at a point
- Explain the use of L'Hospital's Rule and apply it to appropriate limit problems
- State and show uses of the Mean Value Theorem
- Compute the derivatives of polynomials, rational functions, & composite algebraic functions, & trigonometric functions, natural logarithmic and exponential functions
- Differentiate implicitly
- Apply the techniques of differential calculus to the problem of curve sketching
- Apply differentiating techniques to find velocity & acceleration to solve related rate & max/min problems
- Define the anti-derivative of a function & defines the Riemann integral
- Interpret the relationship between antidifferentiation & differentiation
- State and apply the Fundamental Theorem of Calculus
- State the important properties of the integral
- Solve problems involving antiderivatives and areas
- State and use the Mean Value Theorem for Integrals

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**Exams:** Exams will be pen and paper exams. There will be 2 exams given this semester; NOT counting the final exam. Each exam is worth 25% of your overall course grade.

**Final Exam:** The final exam is comprehensive. The final exam is worth 30% of your grade.

**Completing Exams (including the final exam):**

- Every student needs to secure a proctor. Information about securing a proctor and the proctor certification form are detailed in Blackboard in a folder titled “Taking Exams/Securing a Proctor.” **You need to secure a proctor within the first 7 days of the course.**
- **Exams must be completed with your approved proctor by close of business on the exam due date!!!!**
- **You will have 2 hours to complete each of the exams (exam #1, exam #2 and the final exam).**
- **You will not be permitted use of any outside materials on the exams.**
- **You will not be permitted to use a calculator or any other electronic device on the exams.**

There will be no make-up exams, even in the case of an emergency. With an acceptable written excuse, a missed exam score will be replaced by the score on the corresponding portion of the material on the final exam.

**Homework:** Homework assignments will be an integral part of the course. Do not neglect them! The best way to learn this material is to work problems. **Homework is available online via [www.webassign.net](http://www.webassign.net).** Homework assignments must be submitted online according to the due dates on WebAssign. **No late homework assignments or written homework assignments will be accepted!** Please login and register for the class and review the assignments and their due dates. **The class key is: syr 9540 6988.** You will also need a student access key that comes with purchase of the textbook. Homework is 10% of your overall course grade.

**Quizzes:** Quizzes will be administered in WebAssign and/or Blackboard. Quizzes will be assigned/due 1-2 times per week. Please check the weekly folders in Blackboard for the weekly tasks and any assigned quizzes and where/how the quiz will be administered. There will be NO make-up quizzes. If you miss a quiz you will earn a 0. To account for emergency situations, the lowest two quiz grades will be dropped. Quizzes are 10% of your overall course grade.

**Summary of Assignments:**

**Exams ~ 50% (equally weighted)      Homework ~ 10%      Quizzes ~ 10%      Final Exam ~ 30%**

**Grading Policy:** Your course grade will be computed as a weighted average using the aforementioned percentages.

**Grading Scale:** Your letter grade will be determined as follows:

Score	Grade	Score	Grade	Score	Grade	Score	Grade	Score	Grade
93 – 100 %	A	90 – 92 %	A-	87 – 89 %	B+	83 – 86 %	B	80 – 82 %	B-
77 – 79 %	C+	73 – 76 %	C	70 – 72 %	C-	65 – 69 %	D	0 – 64 %	F

**Extra Credit:** There will be NO extra credit assigned. Please do not ask.

**Blackboard:** The syllabus, handouts, and any announcements will all be posted on Blackboard. Please check Blackboard for any class related information as well as your student email, as announcements will also be sent to you via email.

**Email:** The best way to contact me is via email. If you email me Monday – Thursday you may expect a response within 24 hours. If you email me after 3:00pm on Friday, you can expect a response by noon on Monday. In your email to me, please include a subject, include your course name and your first and last name. Your SU email must be used for email communication

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pertaining to grades or disciplinary actions. Also, Blackboard communications will be sent to your SU email address as well, so please be sure to check this often!

**Netiquette:** Remember to be mindful of your online comments, always be respectful and use appropriate language when communicating with the instructor and other peers in the course via email, the discussion board and/or Blackboard Collaborate.

**Students with Disabilities:** If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), visit the ODS website– <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

**Religious Observances Policy:** Syracuse University Religious Observances Policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors no later than the end of the second week of classes for regular session classes and by the submission deadline for flexibly formatted classes. Student deadlines are posted in MySlice under Student Services/Enrollment/My Religious Observances/Add a Notification.

**Academic Integrity:** Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The university policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same written work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the university's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice. The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/policy/>.

**Use of Student Work:** In compliance with the federal Family Educational Rights and Privacy Act, registration in this class is understood as permission for assignments prepared for this class to be used anonymously in the future for educational purposes.

**Important Dates:**

**Financial Aid & Academic Drop Deadline: May 29**

**Last day to withdraw without a grade penalty: June 22**

**Course Schedule:** The course schedule is posted as a separate document in Blackboard. It provides an overview of the daily tasks and assessments due.