Course Supervisor: Sean Rostami, sjrostam@syr.edu, 313C Carnegie, (315) 443-1554

Description: MAT 295 is the first course in a three-semester Calculus sequence. This sequence is designed for mathematics, science and engineering majors and for those students in other majors who intend to take more advanced courses in mathematics. This course covers functions, limits, differentiation, and integration as well as applications such as curve sketching, optimization, and computation of areas.

Prerequisites: There are no official prerequisites for this course, but students should have a strong foundation in Algebra and Precalculus. During the first week of class a *Calculus Readiness Exam* (CRE) will be given; recommendations for each score will then be provided, and those who do not do well should take a precalculus course such as MAT 194 instead of MAT 295.

Students who have scored 4 or 5 on the Advanced Placement Calculus AB exam should register for MAT 296 Calculus II. Students who have scored 4 or 5 on the Advanced Placement Calculus BC exam should register for MAT 397 Calculus III.

Credit: The course material of MAT 295 overlaps with that of MAT 284, MAT 285, MAT 286; credit cannot be given for MAT 284 or MAT 285 after completing MAT 295, and credit for MAT 295 cannot be given after completing MAT 286. Read the Course Catalog for current rules regarding these four courses.

MAT 295 can count towards the Quantitative Skills requirement and the Divisional Perspectives Requirement in Natural Sciences and Mathematics as a part of the Liberal Arts Core.

Textbook & WebAssign: The textbook is James Stewart's *Essential Calculus: Early Transcendentals*, 2nd Edition (Cengage Learning). MAT 295 uses electronic homework via WebAssign, and an access code is needed to submit homework. The ISBN for the bundle (book and WebAssign) is 9781133425946. The ISBN for WebAssign (with e-book) is 9781285858265.

Meetings: The course meets three or four times a week, consisting of two or three lectures and one recitation. Your recitation instructor will answer questions about the course material and will work with students on solving additional problems. A quiz will be given in most recitation sessions.

Calculators: It is expected that students in MAT 295 understand and can use all relevant mathematics without the aid of a calculator, and calculators will not be permitted on quizzes or exams. However, your instructor may occassionally permit a calculator in lecture or recitation for certain special activities.

Attendance & Participation: Students are expected to attend class and participate. Consistent attendance and participation are good indicators of success in MAT 295. Each student is responsible for all material, announcements, quizzes and exams, regardless of actual attendance. It is expected that students check their email and any course websites, including Blackboard, at least once per day.

Homework: Homework assignments will be announced by your instructor in class or online. Due dates will be strictly enforced. Depending on your instructor, there may be written and/or online homework (WebAssign).

Office Hours: In addition to assistance provided during lecture and recitation, your instructor(s) will be available to help you at various times each week; the exact times of these Office Hours will be announced by your instructor(s) by the end of the first week. If special circumstances exist, it may be possible to arrange a meeting outside of these times. Additional help is available at the Math Clinic or Calculus Help Center.

Midterms & Quizzes: Quizzes will be given in recitation. There will be three exams, administered either during lecture or during recitation. Exams will be administered near the dates Feb 13, Mar 10, and Apr 17. Instructors will announce the exact day of the exam. There will be no make-up quizzes or exams, even in the case of an emergency. A missed quiz or examination counts as a zero unless a valid excuse from a physician or the Dean's Office is presented. With an acceptable written excuse, a missed exam score will be replaced by the score on that portion of the material on the Final Exam.

Final Exam: The Final Exam covers the entire course and will occur on **Monday, May 08** for two hours sometime in the range from **8:00 AM to 2:30 PM**. The exact time and location will not be known until later in the semester. Students must take the Final Exam at the scheduled time. **Do not make plans to leave campus before 2:30 PM on May 08, 2017.** If another Final Exam conflicts with this one, the student must contact the instructor at least two weeks in advance in order to have it resolved.

Grades: Each category of coursework is worth a certain percentage of the total grade: each of the three midterms is worth 20%, the Final Exam is worth 20%, and the remaining 20% is determined by homework, quizzes, etc.

Letter grades are determined as follows:

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

Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS) and make an appointment by calling (315) 443-4498 or TDD: (315) 443-1371, visiting Room 309 of 804 University Avenue, or via `http://disabilityservices.syr.edu`. ODS is responsible for coordinating disability-related accommodations and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You must provide your instructor with any documentation or other important information as soon as it is available.

Religious Observances: Syracuse University's 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 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. It is the responsibility of each student to learn about both course-specific and university-wide 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. The presumptive penalty for a first instance of academic dishonesty by an undergraduate student is a letter grade of F in the course, accompanied by a notation on the transcript indicating that the grade resulted from a violation of academic integrity policy. The presumptive penalty for a first instance of academic dishonesty by a graduate student is suspension or expulsion. 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. For more information and the complete policy, see `http://academicintegrity.syr.edu/`.

How to Succeed: Here are a few basic suggestions for how to succeed in this course.

1. *Understand the homework!* It is absolutely essential that you understand all the material from the homework assignments, independently and without external assistance. You must understand exactly how and why the concepts and techniques provided in lecture can be used to answer these questions (they can!). It is especially important that you can recognize the best concept or technique for each type of goal.

2. *Ask questions!* Nothing makes sense immediately, and it is better to ask a question early than to be confused for the rest of class. Instructors are usually very happy to receive questions, and most can remember having similar questions when they were students. Even if you feel that you cannot ask a "complete" question, try to ask anyway – many times your instructor can guess what you mean.

3. *Stay up-to-date!* Mathematical concepts build on each other cumulatively and you need to be knowledgeable about each layer as it occurs. If you are having difficulty, don't expect that the problem will disappear – contact your instructor and work together to resolve it. It is common to fall behind once or twice, due to illness or schedule problems, but if you ignore the problem then you will quickly lose control of the course.

4. *Form a Study Group!* Many students benefit from participating in a study group with their peers, to work through challenging homework and review for exams. You should attempt the problems ahead of time by yourself and then work through any difficulties with your study partners. Explaining your reasoning to another student can help to clarify your own understanding.

5. *Expect to work hard!* Don't be discouraged if you find some of the material very

difficult. Be persistent and patient. You might be surprised to learn how much time and effort is invested by students who eventually receive high scores and, anyway, it is not important whether you invest more or less than another student – what is important is that you succeed.

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.

Questions & Concerns: Please contact your instructor if you have any questions or concerns. If your concern is not addressed to your satisfaction, or if you prefer not to contact your instructor in this case, please contact the Course Supervisor via the information on the first page.