Course Supervisor: Professor Peter Horn, pdhorn@syr.edu, 206E Carnegie, (315) 443-1575

Course description: MAT 295 is the first course in a three-semester sequence in calculus. 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, linear approximation, and computation of areas.

Prerequisites: There is no official prerequisite for this course. During the first week of class a readiness test will be given; those who do not do well should take a precalculus course such as MAT 194 instead of MAT 295.

Students who have scored a 4 or 5 on the Advanced Placement Calculus AB exam should register for MAT 296 Calculus II. Students who have scored a 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, and MAT 286, and so credit cannot be given for both MAT 295 and these courses. Read the Course Catalog for these four courses for current rules.

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

Text: *Essential Calculus: Early Transcendentals, second edition*, by James Stewart (Cengage Learning) and a WebAssign access code for submitting on-line homework. WebAssign may not be required for all sections. The ISBN for the bundle (book and WebAssign) is 9781133425946.

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

Attendance and Participation: Students are expected to attend and participate in class. Strong attendance and participation are good indicators of success in MAT 295. Each student is responsible for all course material, announcements, quizzes and exams made in class, whether or not the student attended that day's class.

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).

Help: Each lecture and recitation instructor will be available to answer questions during office hours. Help is also available at the Calculus Help Center.

Exams and Quizzes: Quizzes will be given in recitation. There will be three in-class or in-recitation examinations. Exams will be given during the weeks of September 21, October 19, and November 16. 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. It is a two-hour exam and will be given on **Wednesday, December 16, 2015 some time between 8:00 AM and 2:30 PM**. The exact time and location will be announced in class near the end of the semester. Students must take the final examination during the appointed examination block and at the scheduled time. If a student has a conflict with another final exam, the student must contact the instructor at least two weeks in advance in order to have it resolved. **Do not make plans to leave campus before 2:30 PM on Wednesday, December 16, 2015.** The final exam will not be given at any other time.

Grading policy: Course grades will be computed using the percentages: 20% for each of the three exams, 20% for the final exam, and 20% for quizzes and homework.

Letter grades are determined as follows:

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

Students with disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), 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 accommodations. 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.

Religious observances policy: Syracuse Universitys 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 Universitys 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. The presumptive penalty for a first instance of academic dishonesty by an undergraduate student is course failure, accompanied by a transcript notation indicating that the failure 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 universitys 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. It is absolutely essential that you understand how to solve the assigned homework problems and, more importantly, how and why the skills and techniques presented in the course are used in solving the assign problems.

2. Ask questions.

3. Stay caught up. Mathematical concepts build on each other cumulatively and you need to stay on top of the material at every stage. If you are having difficulty, don't expect that the problem will take care of itself and disappear later. Contact me immediately and discuss the problem.

4. Form a study group. Many students benefit from a study group to work through challenging problems and to 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. You should expect to work hard. Don't get discouraged if you find some of the material very difficult. Be persistent and patient! If you follow the above suggestions, your experience in this course will be a rewarding one.

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

Course-related Problems or Questions: Please inform your instructor of any problems you have with this course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor, listed on the first page, without delay.