MAT 296: Calculus II
M005 — Spring 2018

Instructor Information

Office hours will be 5 P.M. to 6 P.M. on Mondays and Tuesdays. Additional individual meetings to discuss course material or any other concerns can be scheduled by contacting me. You can always feel free to stop by my office at any time to see if I am there. If I am free, I will be more than willing to discuss anything you might have for me.

Class Information

Course: MAT 296 M005
Dates: January 16, 2018 – May 9, 2018

Day:	Time:	Classroom:
MWF	2:15 – 3:35	Carnegie 110

Course Description

MAT 296 is the second 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 techniques of integration, applications of integration, improper integrals, sequences and series (including power series and Taylor series), and polar coordinates.

Prerequisites

Completion of MAT 295 (Calculus I) with a grade of C– or better is a prerequisite for MAT 296. If you have not either satisfied this prerequisite or have the relevant AP credit, you must drop MAT 296 and register for MAT 295. Furthermore, students who earned a C or C– in MAT 295 are historically at great risk in MAT 296. For these students, it is essential to review material from the earlier course, especially as it comes up again. Students who have scored a 4 or 5 on the Advanced Placement Calculus BC exam cannot receive both AP credit and credit for MAT 296. Such students should register for MAT 397 Calculus III.

Grading

The course grade is determined by the following components:

Quizzes	5%
Homework	10%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	25%

Grade Scale

The grade scale is the standard Mathematics Department grading scale and is as follows:

A	93 – 100	C+	77 – 79
A–	90 – 92	C	73 – 76
B+	87 – 89	C–	70 – 72
B	83 – 86	D	60 – 69
B–	80 – 82	F	0 – 59

Course Materials

- **Textbook:** Stewart, James. *Essential Calculus: Early Transcendentals, 2nd ed.*. Belmont, CA: Thomson Higher Education, 2007. The ISBN bundle (book and WebAssign) is 9781133425946.

- **Calculator:** A calculator is not required for this course. No computational device will be allowed on any quiz or exam (including the final exam) unless otherwise instructed. Using or having available any calculator or other computing device during any quiz or exam (unless otherwise instructed) is a violation of the Academic Integrity Policy.

- **Mathematica:** Mathematica is ***not*** required for the course. However, demonstrations of how to use this software will occur in the course as well as how to use free software, such as WolframAlpha, to solve course materials (as well as far more advanced problems, including in Industry) will also be demonstrated. If you would like a copy of your own to use, you can download the software for *free* through Syracuse University at https://its.syr.edu/licenses/Mathematica.html

Purchasing Your Textbook and WebAssign Access Code:

All students are required to have a WebAssign access code for online homework assignments. The class key for this course is **syr 7281 1640**. This code includes access to the online electronic version of the textbook. Some students will also want a physical copy of the textbook. You may choose between the following options.

(1) Purchase a WebAssign access code either at the Syracuse University bookstore or online at http://webassign.net. This access code includes access to the online electronic version of the textbook. If you purchase this code at the SU bookstore, it is valid for future semesters in the Calculus sequence. If you purchase it online and plan to take MAT 397, you should purchase the multi-term (lifetime of edition) version.

(2) Purchase a new textbook bundled with a WebAssign access code at the SU bookstore. This access code includes access to the online electronic version of the textbook, and is valid for future semesters in the Calculus sequence.

(3) Purchase a new textbook bundled with a WebAssign access code from the publisher's website at http://www.cengagebrain.com. You can also purchase just your WebAssign access code at the publisher's website.

Attendance & Participation

It is essential to your success in this course that you attend each lecture and participate in the discussions. Therefore, you are expected to attend each lecture and to show up on time. Should you need to miss a class for any reason, you are to contact the instructor in a timely manner. Reasons for missing lecture must be documentable and presented, if requested. You are responsible for any material covered during the lecture as well as any work assigned during the lecture. More than two unexcused absences from lectures could result in receiving an F in the course. Furthermore, excessive lateness will also count as an absence. If you are dismissed from lecture due to problems during the lecture, e.g. disruptive behavior or unauthorized cell phone use, then this dismissal will be recorded as an absence.

One of the most crucial aspects of this course is problem solving. Much of lecture will be dedicated to individual or group problem solving. However, the problems addressed in lecture will not be enough to properly master the material. Therefore, you should be dedicating a significant amount of time outside of lectures working through the problems provided. The best way to do so is to form a study group with others in your class. Working together on a regular schedule helps to motivate yourself to regularly address the material and helps you think through material by explaining it to others or helps you by having others help you work through problems you would have otherwise not been able to complete. However, do not forget that Calculus is *not* simply about solving problems; Calculus is about concepts. For each concept learned in class, you should understand the logical reasoning involved and how it might be applied in various scenarios.

Homework & Quizzes

There will be both written and online homeworks. Online homeworks will consist of WebAssign problems. You are responsible for regularly checking WebAssign for new homeworks and submitting problem sets on-time. Should you require an extension for a WebAssign homework, you must request it on WebAssign *and* send an email alerting the instructor and documenting the reason for the extension. *No WebAssign grade will be dropped.*

There will also be occasional written homeworks. These written problems will be assigned during lecture. You are responsible for writing up the problems and bringing them to lecture. *There are no late submissions for written homework.* Typically, these problems will only be graded for completeness. However, they may be collected and graded. The lowest two written homework grades will be dropped.

There will be a short quiz at the beginning of every lecture. These quizzes are to test basic understanding of the material and will be used to take attendance for the course. You should use these quizzes as a method of gauging whether you are understanding the basics of the topics being discussed. *There are no make-up quizzes.* Therefore, the lowest two quiz grades will be dropped.

Exams

All exams will take place during normal class hours. You are expected to be present, seated, and ready to take the exam before the exam is to be given. Unless otherwise announced, the three 'midterm' exams are scheduled for *Friday February 9th*, *Wednesday March 7th*, and *Friday April 13th*, respectively. While the specific dates may change (any change being announced), they will occur during the same week as the original scheduled exam. If you must miss an exam, it is imperative that you make the instructor aware before the exam begins. *There are no make-up exams—even in the case of an emergency.* Reasons for missing an exam must be documentable and such documentation presented, if requested. Given an acceptable reason for missing an exam, the missed exam score will be replaced by the corresponding score of that portion on the final exam. Each exam case will be handled on an individual basis.

The final exam will be cumulative, mandatory, and is scheduled for Monday May 7th sometime between 8:00 A.M. and 2:30 P.M. ***Do not make plans to leave campus before this time!*** The final exam will *not* be administered at another time for any reason. If you have a conflict with another final exam, you should contact the instructor at least two weeks in advance to make arrangements.

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. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations. Making arrangements with ODS takes time. Do not wait until just before an exam or other class assignment is to be given.

Religious Observances Policy

SU 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 holidays 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 are religious observance provided they notify their instructors before the end of the second week of classes. For Fall and Spring semesters, an online notification process is available through MySlice (Student Services → Enrollment → My Religious Observances) from the first day of class until the end of the second week of class.

Counseling Servies

If at any point during the semester, you feel overwhelmed with your class work, feel thoughts of depression/suicide, experience sexual assault/rape, experience problems with substance abuse or relationship abuse, or have any other struggles with physical/mental health, ***please seek help***! The Counseling Center Services at Syracuse University is a resource offering assistance with any issue you might have - both individually and through group sessions. There is ***never*** any shame in seeking help. If you or someone you know is struggling with any of these issues, speak out! The Counseling Center Services website can be found at http://counselingcenter.syr.edu/, is located at 200 Walnut Place, Syracuse NY 13244-4350, and can be contacted at 315.443.4715.

If you or someone you know is having issues with gender or sexual identity issues, the LGBT[QIA] Center is there to create a safe space for those with marginalized genders and sexualities or those who might be struggling with these issues. The LGBT[QIA] Center website can be found at http://lgbt.syr.edu/, is located at 750 Ostrom Avenue, Syracuse, NY 13244-4350, and can be contacted at 315.443.3983. Know that my office is a safe space and should you prefer any gender specific pronoun/name, please be sure to make me aware!

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 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 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/.

Mathematics Help

I am always available for help, either during my office hours or whenever you stop by my office and I am there with time to spare. You may also email me to try to set-up a time to see me. While you may email me with questions, many questions are not effectively answerable in an email and may be deferred till you are in class, to office hours, or to an individual appointment. You can also seek help from any person staffing the Math Clinic or Calculus Help Center, see http://math.syr.edu/undergrad/math-help.html for hours and location. The Center for Learning and Student Success (CLASS) also offers Free Group Tutoring Sessions for MAT296. They are located on the 3rd floor of Bird Library 348, see http://class.syr.edu/ or call 315.443.2005 .

Problem Resolution

Please inform the instructor of any problems, questions, or concerns that you have with this course. Do not wait to bring issues to the attention of your instructor! Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor. Professor Amy Macrina, amacrina@syr.edu, Carnegie 313D, 315.443.1587.

Cellular Phones

Following the Mathematics Department guidelines, all electronic devices other than perhaps a calculator should be turned off and put away during class. Calculators on cellular phones or other computational devices are not to be used on quizzes, exams, or other class activities unless otherwise instructed. Using a cellular or other electronic device without instruction can result in dismal from lecture.