

MAT 296 — Calculus II

Spring 2016

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Office Hours: Monday and Wednesday: 10:00AM-10:50PM

Course Description: MAT 296 is the second course in a three-semester sequence in calculus. This sequence is designed for students who intend to take more advanced courses in mathematics. This course covers techniques of integration, improper integrals, polar coordinates, sequences and series (including power series, Taylor and Maclaurin series).

Learning Goals: The broad learning goals for this course are for you to:

- ✓ have a basic knowledge and understanding of the analytic and geometric concepts taught, and some of their classical applications to other sciences such as physics;
- ✓ understand the nature and role of deductive reasoning in mathematics;
- ✓ have the ability to use and understand the usage of mathematical notation;
- ✓ have the ability to do hand calculations accurately and appropriately; and
- ✓ have the ability to follow proofs and other mathematical discourse.

Background for Course: Completing MAT 295 (Calculus I) with a grade of C– or better is a prerequisite for MAT 296 (Calculus II). **If you have not satisfied this prerequisite, you must drop MAT 296 and register for MAT 295.** 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. It is also vital not to fall behind with the current material. 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.

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

Purchasing Your Textbook and WebAssign Access Code:

All students are required to have a WebAssign access code for online homework assignments. 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.** If you are unsure about which option to choose, please consult with your instructor.

(1) Purchase a WebAssign access code either at the SU bookstore or online at www.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/micro/1-1HYUMAO>. You can also purchase just your WebAssign access code at the publisher's website.

Other Resources: Your textbook comes with access to an online resource at http://www.stewartcalculus.com/media/13_home.php. This website has some interactive visuals to accompany the topics in your textbook. It also has "homework hints" for the problems in your textbook that are marked in blue. Other interactive visuals can be found by clicking the TEC icon in the pages of your ebook.

Calculators: A scientific graphics calculator is acceptable in this course. If you wish to use one and don't own one, the TI-83 calculator is recommended. Students who already own and know how to use another equivalent calculator are free to use it. *However, a symbolic calculator (one with CAS) such as a TI-89 or TI-92 or TI-Nspire with CAS is forbidden on quizzes or exams.* On exams and quizzes complete solutions, and not merely answers, must be presented. For example a numerical computation of an integral by calculator is not acceptable.

Course Format: The course format is two or three lectures (depending on your section) and one recitation each week. Your primary instructor will introduce new material in lecture. Your recitation instructor will answer questions on the course material and the assigned homework problems. A quiz will be given in every recitation meeting starting in the second week. Midterm exams will be given during recitation.

Class Attendance and Participation: You are expected to attend and participate in class. Missing class is the most common reason for poor performance in the course. If you miss a class, you are responsible for obtaining notes for that class from a student who attended. It is also your responsibility to find out about any announcements made in class.

Expected Work and Grading: The required work for this course includes daily homework assignments, quizzes, three midterm exams, and a final exam. These pieces will be weighed as follows in determining your semester grade:

Homework and quizzes – 20%
Each midterm exam – 20%
Final Exam – 20%

Your course grade will be 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

Homework: To learn the material in a mathematics class, it is essential to do all the homework assignments. All problems will be done using WebAssign. Each Friday night a set of WebAssign problems will be assigned. They will be discussed during the following week's recitations and will be due at 11:59pm on the Sunday of that week. Namely, you will have at least 9 days to finish your hw. Lowest 2 homework scores will be dropped. The instructions for how to initiate your WebAssign access are at the end of this document

Extension Policy: A three-day automatic extension of WebAssign homework is possible through WebAssign. You have to request an extension after the original due time. Extension window closes after 14 days. However, the 3-day extension does not exceed the 14-day extension period. For ex-ample, if you request an extension during the 13th day after the due date, then you will not have a 3-day extension but you will have time until the end of 14th day to complete your homework. There is no other way of requesting extensions. If you request an extension, you will lose 50% of the point value of the questions answered correctly after the original due date. Questions answered before the due date are not effected and they are counted 100%.

Extra Credit Policy:

You will receive 50% extra credit for the questions submitted 168 hours (1 week) before the due date.

WEBASSIGN WARNINGS

- You will have 6 submissions allowed. Submit question by question. Never submit the assignment in once. After you submitted the assignment, even I do not have the permission to give you more trials.
- If you see a green check sign next to the question you have submitted, then your answer to that question is correct, and you do not need to do anything further about that question. Again, never touch the "Submit Assignment" button, on the bottom of the page.
- You can see your points per question and your total points at the top of the page under the "Extension Requests" \& "Print Assignment" links. If you see your score, and it is correct, then you do not need to anything. Contact me only if there is an error in your score.
- NEVER change your username. It results in duplication of account, rather than overwriting your existing account.
- Note that all due times are 11:59p.m. EDT (EDT - Eastern Daylight Time. This is the time zone of NY State.) If you are in another state, or country, then check your time zone and submit your homework according to NY time.
- In general if you have any trouble with login, try the following trouble shooting steps.
 - ✓ restart your web browser,
 - ✓ restart your computer/laptop,
 - ✓ Use Firefox instead of other web browsers. Especially, Apple users are strongly recommended to use Firefox instead of Safari.

Quizzes: There will be weekly quizzes given in recitation except in the weeks you have an exam. These quizzes will have 2 problems similar to the homework problems. **No makeup quizzes will be given. Two lowest scores will be dropped.**

Midterm Exams: Three midterm exams will be given during the semester. Your instructor will announce the exact material covered. **No makeup exams will be given. For students with an EXCUSED absence, the final exam score will be substituted for the missing exam score.**

Exam 1: 11 February 2016

Exam 2: 10 March 2016

Exam 3: 21 April 2016

Final Examination: The final exam covers the entire course. It will be given during a two-hour block on

Monday, May 9, 2016, between 8:00 AM and 2:30 PM.

The exact time and location will be announced later in the semester. **Do not make arrangements to leave campus before 2:30 PM on Monday, May 9, 2016. The final exam will not be given at any other time.**

Help: Your instructors will be available regularly during their office hours. You can also seek help at the Calculus Help Center in Carnegie Hall. The Help Center hours are posted by 215 Carnegie Hall or you can obtain a copy of the schedule in the Math Department Office.

Course Supervisor: Professor Jeffrey L. Meyer (this is not your instructor), telephone 443-1479, email jlme01@syr.edu. Please inform *your instructor* of any problems you are having with the course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor without delay.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>. *The use of or availability of any electronic device during a midterm exam or final exam is a violation of the Academic Integrity Policy.*

Religious Observances Policy: Syracuse University's religious observances policy, found at http://supolicies.syr.edu/emp_ben/religious_observance.htm, 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 maybe missed due to a 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.

Students with Disabilities: If 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 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.

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 assigned problems. Quiz and exam questions will be similar to these problems.
2. Ask questions in lecture, recitation and/or at the clinic about anything that is not completely clear. Don't hesitate to bring questions to your instructors during office hours.
3. Every day, read and study the sections in the textbook covered in the lecture. Learning mathematics takes time! Read carefully and work through all the examples in complete detail. It can be helpful to try to work through an example on your own before reading the solution.
4. 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 your course instructor or your recitation instructor immediately and discuss the problem!
5. 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.
6. 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 should be a rewarding one.

Suggested Homework Problems and Tentative Course Schedule

Week	Date	Section(s)	Problems
1	1/19	5.5 (review)	On-line: 11, 13, 14, 17, 19, 35, 41, 51, 533XP On-line: 1, 19, 31 Not on-line: 12, 20
		7.1	On-line: 3, 9, 15, 36, 501XP, 503XP, 510XP Not on-line: 16
		7.2	On-line: 3, 5, 6, 7, 522XP
2	1/25	7.2	On-line: 9, 10, 12, 503XP Not on-line: 16, 18
		7.3	On-line: 5, 7, 33, 502XP Not on-line: 6
3	2/1	7.3	On-line: 9, 11, 34, 504XP, 15, 17, 19, 505XP Not on-line: 10, 18, 38
		6.1	On-line: 3, 5, 9, 11, 13, 19, 502XP, 525XP, 537XP, 533XP Not on-line: 10, 20, 24
4	2/8	6.2	On-line: 1, 3, 5, 9 Not on-line: 4, 8
		6.2	On-line: 17, 19, 21, 23 Not on-line: 18, 22 Exam I
5	2/15	6.2	On-line: 12, 25, 42, 47 Not on-line: 40
		6.2	On-line: 43, 51, 53 Not on-line: 46, 58
		6.3	On-line: 12, 17, 524XP Not on-line: 10
6	2/22	6.3	On-line: 19, 20, 519XP, 530XP Not on-line: 16
		6.3	On-line: 22, 23, 517XP Not On-line: 24
		6.6	On-line: 7, 9, 13, 17, 22 Not on-line: 12

7	2/29	6.6	On-line: 23, 24, 30, 49 Not on-line: 34 Ch Review T/F: 7, 10, 11, 12, 13, 14
		7.4	On-line: 7, 13, 501XP, 511XP Not on-line: 8, 10
		7.5	On-line: 5, 7, 9 Not on-line: 8, 10
8	3/7	7.6	On-line: 17, 505XP Not on-line:
		7.6	On-line: 13, 506XP Not on-line: 10 Exam 2
9	3/21	8.1	On-line: 9, 10, 11, 12, 14, 15, 23, 24
		8.2	On-line: 1, 3, 7, 9, 10, 12, 508XP, 520XP Not on-line: 4, 6
		8.2	On-line: 14, 15, 16, 17, 23, 35, 37, 514XP, 522XP Not on-line: 36
10	3/28	8.3	On-line: 4, 13, 15, 19, 21, 503XP, 523XP Not on-line: 6, 10, 12, 14
		8.3	On-line: 25, 26, 29, 528XP Not on-line: 18, 22, 26
		8.4	On-line: 3, 5, 7, 501XP, 507XP Not on-line: 6, 18
11	4/4	8.4	On-line: 21, 23, 521XP, 533XP
		8.4	On-line: 19, 21, 23, 25, 43 Not on-line: 20, 24, 26, 30
		8.5	On-line: 5, 7, 9, 15, 501XP, 508XP Not on-line: 12, 14, 16
12	4/11	8.5	On-line: 11, 18, 19, 23, 24, 502XP, 512XP Not on-line: 20, 26
		8.7	On-line: 5, 7, 11, 13, 14 Not on-line: 6, 12
		8.7	On-line: 17, 44, 45, 501XP, 506XP, 59, 61, 63, 508XP Not on-line: 16, 46, 60, 62, 64

13	4/18	8.8	TBD
		9.3	On-line: 4, 6, 15, 19, 506XP, 514XP, 522XP Not on-line: 16, 20
		9.3	On-line: 27, 28, 31, 33 Not on-line: 24, 30, 34 Exam 3
14	4/26	9.4	On-line: 5, 7, 10, 15, 517XP Not on-line: 6, 12
		9.4	On-line: 17, 19, 21, 503XP, 505XP Not on-line: 20
		Review	
15	5/2	Review	

WEBASSIGN REGISTRATION INSTRUCTIONS FOR MAT296 SPRING 2015 SECTION4

- Go to www.webassign.net
- Click on ENTER CLASS KEY.
- Enter the class key by entering syr in the first box, 8492 in the second box, and 8549 in the third box; then click SUBMIT.
- If you see “**Instructor: Muhammed Alan**”
Click on “YES, THIS IS MY CLASS”
- Select I need to create a WebAssign account (if you do not have an account associated to your SU email from an earlier class or another semester. If you have an account associated to your SU account, then choose I already have a WebAssign account.)
- Enter a user name and password of your choice. **NEVER CHANGE YOUR USERNAME!** (If you change your username, then the system duplicates your account and you may lose some of your hw).
 - Enter your name and Last Name.
 - Enter your SU email account
 - [Use your SU email account. No gmail, yahoo, Hotmail, or any other account. I receive your scores according to your email address.] If you use any email not ending as @syr.edu, you may lose your homework scores.
 - Enter your SU Student ID.
- Then click on "Create my Account".
- The next page confirms your information, so click on LOG IN NOW.
- You should be logged in now. Select one of the options
 - i. purchase an access code online (if you do not have an access code)
 - ii. enter an access code (purchased with textbook or from a bookstore)
 - iii. continue my trial period