MAT 296-003
Calculus II

Summer Session I, 2014

Course Meetings: M-Th 12:00 pm – 2:25 pm, Room 115 Hall of Languages

Instructor: Professor Uday Banerjee
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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 in a variety of contexts, improper integrals, parametric curves in the plane, polar coordinates, sequences and series (including power series, Taylor and Maclaurin series).

Text: *Essential Calculus: Early Transcendentals*, by James Stewart; Thompson, Brooks/Cole, 2nd edition.

Prerequisite: 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 less in MAT 295 are at great risk in MAT 296. For these students it is important to review material from earlier courses, especially as it comes up again. At the same time it is also vital not to fall behind with the current material.

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 may not be used 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.

Homework: Homework will be assigned from the text during every class. It will not be collected for grading. It is extremely important that you do the homework everyday – otherwise, the chances of success in this course are slim. If you have questions, which you will certainly have, seek help immediately – see your instructor or go to the math clinic or both.

Course Format: A typical class will start with doing some of the assigned homework from the previous class. Quizzes will be given also in the beginning of the class.

Examinations: There will be 2 hour-exams and a comprehensive final (2 hours) in this course.
> **Exam 1: June 2**
> **Exam 2: June 23**
> **Final Exam: June 26**

There will be no make exams or quizzes.
The time/day of final cannot be changed.

Grades: Course grade will be determined by:

Exam 1	**25%**
Exam 2	**25%**
Final	**30%**
Quizzes	**20%**

Your course grade will be based on the following guideline:

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

Clinic: Math Clinic schedule is attached at the end. Please take advantage of the math clinic.

Topics Covered: (from the text)

Techniques Of Integration: Sections 6.1, 6.2, 6.3, 6.6
Applications: Sections 7.1, 7.2, 7.3, 7.4, 7.5
Series: Sections 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8
Parametric Eqns./Polar coordinates: Sections 9.1, 9.2, 9.3, 9.4

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 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 the first test.

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://academic integrity.syr.edu

DEPARTMENT OF MATHEMATICS SYRACUSE UNIVERSITY
UNDERGRADUATE MATHEMATICS CLINIC SCHEDULE

SUMMER SESSION I - 2014 – Begins <u>Monday,</u> May 19 through June 26 (the last day mathematics classes meet).
(Tutors will assist with MAT courses numbered 100-397. Both tutors will also assist students with MAT 414)

THE CLINIC WILL MEET IN THE PHYSICS BLDG. - ROOM 233

MONDAY
10:00 a.m. – 1:00 p.m.	Mr. Robert Roy
2:00 – 5:30 p.m.	Mr. Eric Ottman

TUESDAY
9:00 a.m. – 12:00 p.m.	Mr. Robert Roy
2:00 – 5:30 p.m.	Mr. Eric Ottman

WEDNESDAY
9:00 a.m. – 12:00 p.m.	Mr. Robert Roy
2:30 – 5:30 p.m.	Mr. Eric Ottman
5:30 – 8:30 p.m.	Mr. Robert Roy

THURSDAY
9:00 a.m. – 12:00 p.m.	Mr. Robert Roy
2:00 – 5:00 p.m.	Mr. Eric Ottman

FRIDAY
10:00 a.m. – 12:00 p.m.	Mr. Eric Ottman