

# Syllabus For 640-122 Section 40

Spring, 2006  
Rutgers-Camden

**COURSE TITLE:** Unified Calculus II

**TEXT:** Thomas' Calculus (Eleventh Edition), by George Thomas, Jr., revised by Finney, Weir, and Giordano, published by Pearson/Addison-Wesley, 2005.

**COURSE DESCRIPTION:** This is a four-credit course designed for students of mathematics and physical sciences. It is the second of a three-semester series. It covers selected sections from Chapters 6-11 in the textbook. Topics include: Reviewing methods of differentiation and integrations, applications of definite integrals, transcendental functions, techniques of integration, conic sections, polar coordinates, and infinite series. The course emphasizes on the combination of computational and rigorous reasoning skills and the ability to solve concrete practical problems.

**COURSE INFORMATION:**

- Instructor: Siqu Fu
- Office: BSB 428
- Office hours: TuTh 2:30-4:00pm and by appointments
- Phone: 225-2349.
- E-mail: [sfu@camden.rutgers.edu](mailto:sfu@camden.rutgers.edu)
- Web page: <http://crab.rutgers.edu/~sfu/>
- Lectures: TuTh 6:00-7:45, FA 227

**GRADING POLICY:** There will be two midterm exams and a comprehensive final exam. There will also be several homework assignments and quizzes.

- Attendance, Participation, Homework, and Quizzes–20%
- Midterm I–20%
- Midterm II–25%
- Final–35%

Dates for the quizzes, homework assignments, and exams will be announced in class. Attendance is mandatory.