CALCULUS II
21:640:136 (4 credits)

COURSE DESCRIPTION:
Applications of integrals, calculus of trigonometric and inverse trigonometric functions, techniques of integration, indeterminate forms, infinite series and Taylor series, polar coordinates.

PREREQUISITE:
21:640:135 (Calculus I) or 21:640:155 (Honors Calculus I.)

TEXTBOOK:

DEPARTMENT WEB SITE:  http://www.ncas.rutgers.edu/math

FREE TUTORING: is available in the Rutgers Learning Center, Room 140 Bradley Hall (973-353-5608.)

THIS COURSE COVERS THE FOLLOWING CHAPTERS AND SECTIONS:

Chapter 5: Integration
5.5 Substitution Rule (optional review)

Chapter 6: Applications of Integration
6.1 Velocity and Net Change
6.2 Regions between Curves
6.3 Volume by Slicing
6.4 Volume by Shells
6.5 Length of Curves
6.6 Surface Area (brief overview, if not full coverage)
6.7 Physical Applications

Chapter 7: Logarithmic, Exponential, and Hyperbolic Functions
7.1 Logarithmic and Exponential Functions Revisited
7.2 Exponential Models
7.3 Hyperbolic Functions (brief overview, if not full coverage)