

DR. M. HERMAN, ROWAN UNIVERSITY
CALCULUS TECHNIQUES AND APPLICATIONS (3 SEM HRS)
SYLLABUS FOR FALL 2008

SECTION 03125-6 (CRN 40287) MW 12:15 pm -1:30 pm

INSTRUCTOR: Dr. M. Herman (herman@rowan.edu)

OFFICE: Robinson Hall, 2nd Floor, Mathematics Department, 856-256-4500 x 3539

OFFICE HOURS: by appointment (please email to set up an appointment so Dr. Herman can schedule meeting with you around meetings with other students/professors and can be prepared to meet with you),
W 2:00 PM – 4:30 PM

TEXT: Tan, S.T. *Calculus for the Managerial, Life, and Social Sciences*. Brooks/Cole.

TECHNOLOGY: A TI-83 or TI-84 graphing calculator (Texas Instruments) is required for this course. Also, email will be used as a communication tool between Dr. Herman and students. Email from Dr. Herman will be sent to students' Rowan email accounts throughout the semester.

COURSE DESCRIPTION: This course introduces students to the techniques of differential and integral calculus. Topics include Functions; Differentiation; Interpretation and Applications of the Derivative as a Rate of Change; Applications Involving Maxima and Minima; Integration; and Additional Applications to Various Disciplines and Fields of Study. Students are expected to have completed an equivalent of the course College Algebra prior to this course.

OBJECTIVES: This course serves general education, technology, business, and economics students in achieving the following objectives: (1) develop the concepts of the limit, derivative, and anti-derivative of a function, and also of the definite integral; (2) consider applications of the derivative and definite integral, and (3) provide experience with and information about the significance and specific uses of calculus in today's world. Emphasis is placed on practical applications of limits, derivatives, and integrals.

GRADING SCHEME:

2 Midterm Exams, plus one Final Exam (Exams make up approximately 60% of the course grade.)

Homework / Quizzes / Class Participation / Worksheets / Labs / Group Work (40% of course grade)

Cut-offs: A 93 A- 90 B+ 87 B 83 B- 80

 C+ 77 C 73 C- 70 D+ 67 D 63 D- 60

Final semester grades will be reported online and will not be changed once finalized at the end of the semester.

ACADEMY HONESTY: All work on exams must be your own. The penalty for a cheating offense will minimally be an automatic zero (0) on the related exam (or assignment), up to an automatic F in the course with a report to the Provost's Office. Procedures regarding dishonesty will follow Rowan University policies, as outlined in the Academic Honesty portion of the Student Information Guide available online.

ATTENDANCE: Students are expected to attend class regularly and will sign an attendance sheet on a daily basis. **The instructor is not responsible for covering material missed when a student is absent.** That is, rather than asking the instructor to re-teach material to a student who misses a class, the student should catch up on missed notes and assignments with a classmate. Absences and/or excessive lateness may result in a lowered final grade. **Any graded assignments turned in late as a result of an absence will result in a grade of zero (0) up to a maximal score of half the credit of the completed work.** As shown in the grading scheme above, exams constitute most of the course grade. Attendance at all exams is required. Absence on the day of a regularly scheduled test will automatically result in a grade of zero (0). Permission to be excused from an exam will be given only when documentation of a serious reason for the absence is provided. **No make-up exams or assignments will be administered.**

STUDENTS WITH DISABILITIES AND SPECIAL NEEDS: Disabilities and special needs are documented at the Office of Disability Resources in the Academic Success Center in Savitz Hall (x4233 or x4234). Students who wish for special services must provide a Notification of Accommodation letter from the Office of Disability Resources to the instructor as soon as possible at the beginning of the semester. The instructor is not responsible for providing accommodations until she receives the notification letter.

WITHDRAWAL POLICY: Students will be updated on their overall course grade after each midterm exam and any time by request (typically on email). Dates and policies regarding withdrawal from the course will follow Rowan University protocol, including the three deadlines for withdrawal during the semester. Note that the university's policy on course withdrawals during the last four weeks of the semester is that a student may withdraw only if there are circumstances beyond his/her control which prevent him/her from completing the course requirements.