

Registrar

MATHEMATICS 1140 A2
Fall Semester 1993-94

TITLE: ELEMENTARY CALCULUS I

SCHEDULE: Class: Mon Wed Fri 9:00 am - 9:50 am
Seminar: Tuesday 9:30 am -10:50 am
Thursday 9:30 am -10:50 am

INSTRUCTOR: Dr. Subhash Karnik
Office: J206
Extension: 2093

TEXT: i) Howard Anton; Calculus with Analytic Geometry
(Fourth Edition/Brief Edition)
ii) Albert Herr; Student's solution manual to
accompany (i)

MARKING: Final Examination 35%
Term test 1 15%
Term test 2 20%
Quizzes 20%
Assignments 10%

SCHEDULE OF EXAMINATIONS:

Term test 1 : Wednesday, October 20, 1993
(Tentative)
Term test 2 : Wednesday, November 24, 1993
(Tentative)

Final Examination : As will be scheduled by Registrar's
Office in December 1993.

Quizzes, term tests and the final examination must be
written at scheduled times.

Attendance: In case of instances of unavoidable absence it is student's responsibility to keep track of material covered in the missed classes and also of any announcements made. Attendance record will be maintained.

Lateness: In order to avoid disruption, students are requested not to be late for classes.

Calculators: Calculators are not allowed in quizzes, term tests and examinations.

Food and drink: LARGE meals are not allowed during the class time. A sandwich for survival will not be frowned at.

Quizzes: Generally, quizzes will be administered on Fridays for MWF class and on Thursday for T,R class. This schedule may be changed sometimes if found necessary by the instructor. The instructor will let the class know of any such change at appropriate time. Each quiz will be on the current topic usually covered by the Seminar Problem Set for the week.

Assignments: There will be 3 or 4 major assignments. These assignments will be harder than seminar and quizzes and geared towards getting the student ready for term tests and final examination. Assignment Problem Set will be made available to students at appropriate time. Sometimes, a quiz would be set based on the assignment questions. The instructor will advise the class in advance when such a quiz is set. In case such an assignment quiz is administered, students are not required to hand in that particular assignment. Marks for such an assignment quiz will form a part of total assignment marks.

Assignments should be legible and neatly done. Carelessly and shabbily written assignments risk a penalty of upto 10% of the total mark. If an assignment submitted is in extra-ordinarily bad shape, the instructor may refuse to accept it. Assignments have to be submitted on time. Late assignments will not be accepted.

Seminars: Seminars are in essence problem solving sessions and as such are a very important part of the course. The instructor is present in the seminar to help students on Seminar Problem Sets and on material covered in classes. Students can also receive help on their assignments during the seminar time. Each instructor conducts seminars differently. Sometimes quizzes are administered in the seminar time. An attendance record is maintained.

Experience of many years indicates that students who attend seminars, take the seminars seriously and complete the allotted practice usually do well in the course.

Homework: From time to time some home-work will be suggested from the text-book as different topics are covered. This home-work is for practice only and need not be handed in.

Notes: Take appropriate notes in the class placing a special mark or a symbol by the side of a concept or a problem that is important or difficult to understand or remember. It helps students immensely to go over the day's notes at home preferably the same day when the matter is fresh in their mind. Going over the notes passively like a novel does not do much good for the learning process. Work out some or all of the problems worked out in the class when going over the class notes. Then attempt home-work questions.

If you miss a class, it is important that you keep track of material covered in the class. One way to do this is to get class-notes from a peer who takes notes with care. **Write the notes rather than xerox them. Kinesthetics of writing helps comprehension and retention.** Xeroxing of notes should be resorted to only when one has run into time-management problems due to circumstances beyond one's control.

Time management: It is a good idea to apportion time for your courses in your study schedule. Definitely reserve some time for fun and re-creation activities. You need some relaxation for effective studying. After making a good study schedule, one must follow it. If a time-management problem develops during the term, re-arrange the available time wisely and then once again follow the revised plan knowing that this is the best one can do to get out of trouble. If one makes a reasonably workable time schedule and follows it, there will be most likely no occasion to re-arrange time in panic. Using a planning diary for daily activities also helps.

Quizzes and Exam Preparation: Remember that Mathematics is a sequential subject. Weakness in earlier chapters is definitely going to hinder comprehension and mastery of later material. One cannot accumulate Mathematics work and expect to do well by putting in a lot of concentrated effort just before exam. Mathematics has to be learnt in sequence and master it in sequence while proceeding at a reasonable pace.

It is beneficial to go over difficult questions in Seminar Problem Set of the week and also class notes the day (night) before the quiz day. Special notations placed at important and difficult details in your notes will facilitate preparation for quizzes and exams. The review of notes, seminar sets, assignments and home-work should also involve selected problem solving.

Finally: Everything is learnt by doing it and Mathematics is no exception to this rule. "Just do it" would be a good way to learn anything and definitely Mathematics.

GOOD LUCK.

