MATH 170-02 Calculus I

Hem Joshi

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Calculus I  
Math 170-02, Fall 2014


Place and Time: Hailstones Hall 3, MW 11:00 - 11:50 AM and Macdonald 130, TR 11:30- 12:45 PM

Instructor: Hem Joshi (joshi@xavier.edu)
Home page: http://cerebro.cs.xu.edu/~joshi
Office: Hinkle 106 (Tel: 745 4277)
Office hours:  T 8:00-11:00, F 10:00 – 11:00 or by an appointment (open door)

Course Description: We will do a quick review of basic algebra and examine the idea of limit, functions and their derivative, the usefulness of the derivatives, anti-derivatives, and the beginning of integration. If time permits, we will discuss some application to real life problems from Physics, Chemistry, and Biology. We will focus on interpreting the results in layman’s language, i.e., a non math person should be able to understand what you are talking about.

Goal and outcomes: My students will:
• be able to analyze and interpret quantitative data, mathematical model, and graphs
• be an effective communicator (in writing and orally)
• be able to use appropriate technology and make informed decisions
• be able to utilize mathematical and logical reasoning and the language of mathematics in you field of interest.

Technology: We will use the TI 83 and Maple software to help with the computational aspect of the material in this course. You are free to use Matlab (or other software) but the university has a site license only for Maple.

Prerequisite: Strong background in algebra and trigonometry, Math 150 or departmental approval.

Your final grade will consist:
Quizzes 100 points
Homework 100 points
3 Exams (in class) 300 points
1 Final comprehensive 200 points

Grading scale: 90-100 (A) 80-89 (B) 70-79 (C) 60-69 (D) < 60 (F)

Quizzes: There will be no make up quiz but I will drop the two lowest quiz grades while calculating your final grade.

Homework: Homework assignments must be neat, legible and stapled. Be aware that I will not accept any loose pages or sloppily prepared work. During the semester homework will be assigned at the end of every section completed (may be every meeting) except the last week of the class. I will collect at least six homeworks and selected problems will be graded. You will get
40% points for completion (more than 70% of assigned problems done) and 60% points for correctness. Late homework will be accepted under special situations (e.g. illness, family emergency, etc). I will drop your two lowest scores in computing your final grade.

**Exams Make-up policy:** There will be a make-up exam for a valid excuse (by my definition), and only if arrangements are made in advance.

**Final exam:** There will be a comprehensive final exam on Tuesday December 16, 2014 (10:30-12:20).

**Attendance Policy:** I will pass around an attendance sheet occasionally. If you miss a class please get notes from a fellow student and see me if you need any help.

**Note:** In class tests will be announced one week in advance. If you have more than two exams in a day please let me know in advance so that I can give you a make-up test. If you fail any three exams, you will get an “F” as your final grade. Below 40% in any test, final score in quizzes and homework may result in a lower letter grade. Any kind of cheating will be dealt with according to Xavier University policy and may result in a zero grade.

**Have a great Semester**