

COURSE OUTLINE
MATH 1300.03
FALL 2001

INSTRUCTOR: S. O. Kochman, Ross N510, tel. 736-5250 ext 22553,
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OFFICE HOURS: Mon, Wed, Fri 11:30–12:20 or by appointment.

REQUIRED TEXT: S. O. Kochman, *Calculus: Concepts, Applications and Theory, Part I, 2001 Edition, McGraw-Hill Ryerson*, available from the bookstore. Please inform me of any errors that you find in this text.

OPTIONAL AID: V. Mishkin, *Student Manual for Math 1300*, contains solutions to all the Basic Exercises of the sections covered in Math 1300.

MATH LAB: Assistance with mathematical questions on the course or the homework is available at the “Mathematics and Statistics Laboratory”, room S525 Ross, beginning on Monday, September 17. The hours will be announced in class.

WEB PAGE: There is a web page for this course which contains the course outline, homework problems, hints for the homework problems, course schedule, quizzes and exams (with solutions) of the past two years, as well as solutions to our quizzes and exams. Announcements made in class will be posted there and will not be repeated in class. The address of this web page is:

<http://www.math.yorku.ca/Who/Faculty/Kochman/M1300/info.html>

SYLLABUS: We will study the following sections:

Chapter 1: sections 1–6; Chapter 2: sections 1–10,12; Chapter 3: sections 1–3.

Note that we will not cover all the sections of each chapter.

Calculus is the study of functions. Differential calculus studies the tangent lines to their graphs while integral calculus studies the areas under their graphs. Limits are used to define the derivative and integral. We will develop formulas for computing derivatives. Consequences of the Mean Value Theorem will be used to find local extrema and to sketch curves. Applications of the derivative will be made by interpreting it as a rate of change. The Fundamental Theorem of Calculus will be used to evaluate integrals, and integrals will be applied to compute areas. Other applications of integrals will be studied in Math 1310. A more detailed list of topics is contained in the table of contents of the text.

HOMEWORK: You are expected to do *all* of the assigned homework. Experience has shown that the only way to learn math is to do it – math is not a spectator sport! The amount you learn in this course and the grade you receive will be proportional to the amount of time you spend doing problems. There will be a weekly quiz each Friday at 1:00 p.m. with one problem analogous to

one of the assigned homework problems. Each marked quizz will be available for pickup at the Math Lab the following Monday.

EXAMS: There will be three in-class exams and a 3 hour final exam.

MARKS: The final exam will count as 35% of your mark, each in-class exam will count as 15% of your mark and the quizzes will count as 20% of your mark.

MISSED EXAMS: There will be no make-up exams for missed quizzes or missed in-class exams. Upon presentation of documentation of a valid excuse, the corresponding percentage of the final mark will be added to the final exam. With no presentation of such documentation a grade of zero will be entered for the missed quiz or exam. If you miss the final exam then it is your responsibility to complete the required paperwork for deferred standing during the first week of January. A make-up final exam for students with deferred standing will be given on the Monday of Reading Week. Any student who receives deferred standing after that date will have to write the final exam with the students of a later course such as the Winter Math 1300 final exam given in April.

IMPORTANT DATES: Add deadline without my permission: Sept. 21.

Add deadline with my permission: Oct. 5.

Drop deadline: November 9.