MATH1930 FALL 2008 SYLLABUS & GRADING
INSTR: PROF. NAGISETTY

Syllabus & Grading

Text: Essential Calculus, James Stewart
Objective of **Math1930, Honors Calculus II** is to cover Chapters 6, 7, 8, 9, and part of Chapter 10 of *Essential Calculus*.
Prerequisites: Math1920 or Math1850 or Math1830. **If you do not have at least one of these prerequisites, it is quite possible you may fail in this class. You may want to explore other options than continuing with this class. Last day to add/drop is Sept. 8th, 2008 and the last day to withdraw to get the grade W is Oct. 31st, 2008** according to the Academic Calendar (http://www.utoledo.edu/offices/provost /file/AcademicCalendar/ AcademicCalendar08-09.pdf).
Note that your **Final Exam** is on Wednesday, Dec 17th, 12.30–2.30 pm according to the Exam Schedule
(http://www.utoledo.edu/offices/registrar /main_campus/exam_schedules.html)

Grading

We may alter some of this plan after knowing the class better.
I plan to have a one hour test on a Friday once every two weeks (Sep 5, Sep 19, Oct 3, Oct 17, Oct 31, Nov 14, Dec 5) A list of practice problems will be handed out as early as possible before each test. Tests count for 70% and the Final Exam counts for 30% of your final grade. Grades are assigned as follows depending on your percentage: $A \geq 90 > A- \geq 85 > B+ \geq 80 > B \geq 75 > B- \geq 70 > C+ \geq 65 > C \geq 60 > C- \geq 55 > D+ \geq 50 > D \geq 45 > D- \geq 40$.
Do all odd problems in every section in every chapter. If you need help there are many ways to get it.

1. Ask me during my office hours or some other time mutually agreed upon.
2. Talk to each other. Some of your classmates might help you. Helping others helps you become stronger in your understanding. A person who asks for help is doing us a great service.

Office Hours. Office: 2020B University Hall, Hours: 3–5 pm. TR, 11 am–12 pm. M. Office hours could be changed later on for the convenience of the students and the instructor.
Phone: Ext. 2977,e-mail:rnagise@math.utoledo.edu,

Course Content.

1. Previously you learnt that anti-derivative of a function is related to the integral of that function, a consequence of the first fundamental theorem, and also how to integrate by using substitution. In Chapter 6, we shall learn a new technique

of integration, integration by parts. We use these two techniques to find integrals of all sorts of functions in this chapter.
2. In Chapter 7 we find areas between curves, volumes of solids of revolution, surface areas of surfaces of revolution by identifying them as definite integrals and integrating them by the methods of the previous chapter.
3. Next we skip Chapter 8 to cover Chapter 9 where we introduce polar co-ordinates and deal with parametric equations for curves, arc-lengths and surface areas which we calculate first by identifying them as definite integrals and second by evaluating these by the methods of Chapter 6.
4. Then we go back to Chapter 8 dealing with limits of sequences and series. This is quite abstract but necessary and demands your strong attention. Here we deal with expanding functions in terms of their Taylor series.
5. If we have time we will deal with first few sections of Chapter 10 and deal with dot product and cross product of vectors.