Math 163: Integrated Calculus and Analytic Geometry I

Meets: MWF 9:00-10:25a in SL 137Class Number: 20529Final Exam: Saturday, April 28, 3:30-5:00pInstructor: Carl CowenOffice: LD 224PInstructor: Carl CowenOffice: LD 224PPhone: 278-8846Office Hours: MWF 10:40a - noon, or by appointmentE-mail: ccowen@iupui.eduURL: http://www.math.iupui.edu/~ccowen/Math163.html

MAPLE **Projects**

MAPLE is a 'computer algebra system' (well-known competitors are DERIVE and MATHE-MATICA). A computer algebra system is a computer program that recognizes algebraic and other mathematical symbols and can do computations with them in their *symbolic form!* This contrasts with numeric engines, such as MATLAB, which can only do numerical computations, giving answers as numbers, and accurate to a fixed accuracy. There will be 13 MAPLE Projects to be completed in the course. Late projects will be accepted, but the grade will be docked 15% for each class day late the project is turned in. As is noted on the handout, you should plan to use MAPLE 10 as this is the version supported in **all** the labs, although other versions are supported in some of the labs.

The developing schedule for the course will be announced in class, but will also be on the website for the class, updated regularly.

The work you submit for MAPLE Projects, (in addition to homework, quizzes, tests, and exams) must be your own. For MAPLE Projects you will probably find it beneficial to consult with other students about the material and this kind of conversation and collaboration is encouraged. At the end of the consultation, however, each participant is expected to prepare their own summary of the discussion and their own report for the project.

- Each project report must include both the MAPLE input and output as well as a descriptive part explaining what you have done.
- Questions should be answered in order and the report should clearly refer to the question being addressed.
- Clearly identify all plots, including labeling the axes, the variables, the graphs if more than one on the same axes, and the scales.
- Unless something is crossed out, it will be graded as part of your report.
- The report should be neat, easily readable, graphics large enough to be easily read (but not so large as to waste paper), and printed on a good quality printer and paper.
- The report should be stapled or otherwise held together so that pieces will not be separated when being handled (paper clips or merely folding together is not acceptable).

Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
	10:30a - 2:00p	9:00a - 12:30p	10:30a - 1:00p			
	Demir	Graves	Cearly			
1:00p-5:00p		2:00p-7:00p	1:00p-4:15p	2:00p-7:00p	11:00a-3:00p	11:00a-3:00p
Graves		Mushonga	Tiwari	Mushonga	Mushonga	Demir

LD 225 Lab Schedule for MAPLE Assistance