MTH 142 Calendar and Syllabus Fall 2007

The following calendar gives a timetable for the course. Your class may be slightly behind or ahead at any given time. Some of the problems may be done in class, others as homework. Your instructor will be more specific. You should work out all of the problems given below, and others if possible. NOTE: Maple Modeling Projects will be collected on dates that will be announced by your instructor.

Week	Events	Sections	Problems
Sept 5-7	Classes start Wed.	7.1 substitution 7.2 integration by parts	1-37 odd, 45-65 odd 1-27 odd,31,33,35
Sept 10-14		7.3 tables 7.4 alg & trig substitution	1-17 odd, 29,33,37 1-14, 19-22, 37-47 odd, 57
Sept 17-21		7.5 trapezoidal rule 7.6 Simpson's rule 7.7 improper integrals	1-12, 19 1, 2, 4, 5 1, 5-27 odd, 33
Sept 24-28		7.8 comparison tests 8.1 areas and volumes(1)	1-21 odd, 29 1-13 odd
Oct 1-5	**Exam I** (Oct 4th, 5pm, CHAF271)	8.2 volumes(2), arc length Exam I	1-7, 11, 12, 23-31 odd
Oct 9-12	No Monday classes	8.3 polar co-ordinates 8.4 mass density	9, 21-29 odd, 36, 37 1, 3, 9, 19, 23
Oct 15-19		8.5 physics applications 8.7 distribution 8.8 probability	1, 3, 7, 9, 15, 22, 23, 27 4-9, 13, 15, 16, 17 5-10
Oct 22-26	**Maple I due (26th)**	9.1 sequences 9.2 geometric series	1-19 odd, 21-31 odd 1-21 odd, 25, 26
Oct 29-Nov 2		9.3 series convergence 9.4 tests for convergence	1-19 1-37 odd
Nov 5-9	**Exam II** (Nov 8th, 6pm, BISC AUDI)	9.5 power series Exam II	1-27 odd
Nov 13-16	No Monday classes	10.1 Taylor polynomials 10.2 Taylor series	1-15 odd, 23, 29 1-19 odd
Nov 19-21	Thanksgiving!	10.3 new series from old	1-13 odd, 25, 27
Nov 26-30		11.1 differential equations 11.2 slope fields 11.3 Euler's method	1-15 odd 3, 5, 9 1, 3, 5, 7
Dec 3-7	**Maple II due (7th)**	11.4 variables separable 11.5 growth & decay 11.7 logistic model	1, 6,15, 21, 23-25, 28, 33, 39 3, 5, 7, 10, 11, 13, 15 1,3,5,6,9
Dec 10	Last day of class		