

The University of Calgary
Faculty of Science
Department of Mathematics and Statistics
Mathematics 253 Course Schedule

Opposite are useful dates for Mathematics 253, Lecture 04, Winter 2005.

All section numbers are taken from the text *Single variable calculus*, by R. Adams, fifth edition.

If you wish to use a different text than the prescribed one, it is your responsibility to transcribe the sections overleaf to something appropriate for your text.

Month	Day	Section	Commentary
January	10	3.1	Inverse Function Theorem
January	12	3.2-3.3	Logarithm and Exponential
January	14	3.5	Inverse Trigonometric Functions
January	17	3.6	Hyperbolic Functions
January	19	6.1	Integration by Parts
January	21	6.2	Useful Substitutions
January	24	6.2	Useful Substitutions 2, Quiz #1
January	26	6.3	Rational Functions
January	28	6.3,4	Partial Fractions, Computer Integration
January	31	6.5	Improper Integrals
February	2	6.5	Improper Integrals 2
February	4	6.6,7	Numerical Integration
February	7	6.7,8	Numerical Integration 2, Quiz #2
February	9	7.1	Solids of Revolution
February	11	7.2	Slicing tricks
February	14	7.3	Arc Length, Surface Area
February	16	7.4	Centre of Mass, Moments
February	18	7.5	Theorem of Pappus
February	21		Reading Week, Family Day
February	23		Reading Week
February	25		Reading Week
February	28	9.5	Power Series
March	2	9.6	Power Series 2
March	4		Midterm
March	7	9.7	Gamma Function, Functions defined by Integrals
March	9	9.8	Taylor Theory redux
March	11	9.9	Binomial and Trinomial Theorem
March	14	7.9	Separation of Variables (ODE 0), Quiz #3
March	16		ODE 1
March	18		ODE 2
March	21		ODE 3
March	23		ODE 4
March	25		Good Friday
March	28		ODE 5, Quiz #4
March	30		ODE6
April	1		ODE 7
April	4		ODE 8
April	6		ODE 9
April	8		ODE10
April	11		ODE 11, Quiz #5
April	13		ODE 12
April	15		Review