

The University of Calgary
Faculty of Science
Department of Mathematics and Statistics
Mathematics 251 Course Schedule

Opposite are useful dates for Mathematics 251, Lecture 04, Fall 2008.

All section numbers are taken from the text *Single variable calculus*, by R. Adams, sixth 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
September	8	p.1	Numbers, review
September	10	p.2	Inequalities, Lines
September	12	p.3, p.4	Functions
September	15	p.5	Composition
September	17	p.6, p.7	Polynomials, Trigonometry
September	19	1.1, 1.2	Limits
September	22	1.3	Infinite limits Quiz #1
September	24	1.4	Continuity
September	26	2.1	Tangent lines
September	29	2.2	Derivatives
October	1	2.3	Rules of differentiation
October	3	2.4	Chain rule
October	6	2.5	Trigonometric derivatives Quiz #2
October	8	2.6	Mean value theory
October	10	2.8, 2.9	Higher derivatives, Implicit differentiation
October	13		Thanksgiving. No lecture.
October	15	2.10	Antidifferentiation
October	17	2.11	Dynamics
October	20	3.1	Inverse functions, Quiz #3
October	22	3.2	Logarithms and exponentials,
October	24	3.3	Natural logarithms and e .
October	27	3.4	Exponential growth and decay
October	29	4.1	Related rates
October	31	4.2	Critical point theory, maxima, minima.
November	3		Midterm
November	5	4.3	Concavity
November	7	4.4	Graphing
November	10		Reading day. No lectures.
November	12	4.5	Max-min problems
November	14	4.6	Newton's method
November	17	4.7	Linear approximation , Quiz #4
November	19	4.8	Taylor polynomials
November	21	4.9	L'Hôpital's rule
November	24	5.1	Sums
November	26	5.2	Area
November	28	5.3	Definite Integral I
December	1	5.4	Definite Integral II , Quiz #5
December	3	5.5	Fundamental theorem of calculus
December	5	5.6	Substitution methods