

# Calendar for Calculus I, Spring 2009

Spring 2009

This is a week-by-week calendar of topics covered in Calculus I.

Week	Dates	Section	Topics
1	1/20-1/22	1.1	Functions and their Representations
		1.2	A catalog of essential functions
2	1/27-1/29	1.3	The limit of a function
		1.4	Calculating Limits
3	2/3-2/5	1.5	Continuity
		1.6	Limits involving Infinity
4	2/10-2/12	2.1	Derivatives and rates of change
		2.2	The derivative as a function
		2.3	Basic differentiation rules
5	2/17-2/19	2.4	The product and quotient rules
		2.5	The chain rule
6	2/24-2/26	2.6	Implicit differentiation
		2.8	Linear approximations and differentials
7	3/3-3/5	3.1	Exponential functions
		<b>Midterm: 2:00-3:15pm</b>	
8	3/10-3/12	3.2	Inverse functions and logarithms
		3.3	Derivatives of Logarithmic and Exponential Functions
		3.5	Inverse trigonometric functions
	3/17-3/19	<b>Spring Break (no classes)</b>	
9	3/24-3/26	4.1	Maximum and Minimum Values
		4.2	The Mean Value Theorem
		4.3	Derivatives and the shapes of curves
10	3/31-4/2	4.4	Curve sketching
11	4/7-4/9	4.5	Optimization problems
12	4/14-4/16	5.1	Areas and distances
		5.2	The definite integral
13	4/21-4/23	5.3	Evaluating definite integrals
		5.4	The Fundamental Theorem of Calculus
14	4/28-4/30	5.5	The Substitution Rule and Review
	5/8	<b>Final Exam: 2:00-3:50pm</b>	