

Math 125
 Fall, 2002
 Syllabus by Date

1	08/28	Wed.	Fours ways to represent a function
2			Mathematical models
3			New functions from old functions
4			Graphing calculators and computers
1	08/30	Fri.	The tangent and velocity problems
2	09/02	Mon.	The limit of a function
	09/03	Tue.	Quiz 01
	09/04	Wed.	-----
3	09/06	Fri.	Calculating limits using the limit laws
4			The precise definition of a limit
5	09/09	Mon.	Continuity
	09/10	Tue.	Quiz 02
6	09/11	Wed.	Tangents, velocity and other rates of change
1	09/13	Fri.	Derivatives
2	09/16	Mon.	The derivative as a function
	09/17	Tue.	Quiz 03
3	09/18	Wed.	Differentiation formulas
4	09/20	Fri.	The rate of change in the natural and social sciences
	09/23	Mon.	Review for Exam 1
	09/24	Tue.	Exam 1
5	09/25	Wed.	Derivatives of trigonometric functions
6	09/27	Fri.	The Chain Rule
	09/30	Mon.	-----
	10/01	Tue.	Quiz 04
7	10/02	Wed.	Implicit differentiation
8	10/04	Fri.	Higher derivatives
9	10/07	Mon.	Related Rates
	10/08	Tue.	Quiz 05
10	10/09	Wed.	Linear approximation and differentials
1	10/11	Fri.	Maximum and minimum values
2	10/14	Mon.	The Mean Value Theorem
	10/15	Tue.	Quiz 06
3	10/16	Wed.	How derivatives affect the shape of a graph
4	10/18	Fri.	Limits at infinity; horizontal asymptotes
	10/21	Mon.	Fall Break
	10/23	Wed.	Fall Break
	10/25	Fri.	Fall Break
	10/28	Mon.	Review for Exam 2

	10/29	Tue.	Exam 2
5	10/30	Wed.	Summary of curve sketching
6			Graphing with calculus and calculators
7	11/01	Fri.	Optimization problems
8			Applications to economics
9	11/04	Mon.	Newton's Method
	11/05	Tue.	Quiz 07
10	11/06	Wed.	Antiderivatives
1	11/08	Fri.	Areas and distances
2	11/11	Mon.	The definite integral
	11/12	Tue.	Quiz 08
3	11/13	Wed.	The Fundamental Theorem of Calculus
	11/15	Fri.	-----
4	11/18	Mon.	Indefinite integrals and the Total Change Theorem
	11/19	Tue.	Quiz 09
5	11/20	Wed.	The Substitution Rule
1	11/22	Fri.	Area between curves
2	11/25	Mon.	Volumes
	11/26	Tue.	Quiz 10
3	11/27	Wed.	Volumes by cylindrical shells
	11/29	Fri.	Thanksgiving
	12/02	Mon.	Review for Exam 3
	12/03	Tue.	Exam 3
	12/04	Wed.	-----
5	12/06	Fri.	Average value of a function
	12/09	Mon.	Review for Final
	12/11	Wed.	Review for Final