

day	date	HW due	tentatively scheduled topics
1	Jan 21		differentials: approximating small changes
2	Jan 26		product and power rules for differentials
3	Jan 28		chain rule; relative change
4	Feb 02		quotient rule
5	Feb 04		exponential growth and logarithms
6	Feb 09	1--4	differentials of exponentials and logarithms
7	Feb 11		rates of change
8	Feb 16		related rates
9	Feb 18		slopes and tangent lines
10	Feb 23	5--8	profit and revenue optimization
11	Feb 25		more single-variable optimization
12	Mar 01		slope interpretations; Fund. Thm. of Calculus
13	Mar 03		test: days 1--8
14	Mar 15	9--12	time and distance integrals
15	Mar 17		antidifferentiation rules; average function value
16	Mar 22		integration by substitution
17	Mar 24		integration by parts
18	Mar 29		consumer/producer surplus
19	Mar 31	14--17	integration practice
20	Apr 05		differential equations in finance
21	Apr 07		test: days 9--17
22	Apr 12		partial derivatives
23	Apr 14		total differential
24	Apr 19	18--21	higher partial derivatives and quadric surfaces
25	Apr 21		two-variable optimization
26	Apr 26		many-variable optimization in linear regression
27	Apr 28	22--25	iterated integration
28	May 03		volume
29	May 05		test: days 18--25
	May 10	26--28	reading day (no class)
	May 12		comprehensive final exam (2:00—5:00)