

MATH 151
Schedule of Lectures
Stewart *Calculus Early Transcendentals* 6e

CLASS	SECTIONS grouped by topic	LECTURES*
1	1.5-6, 2.1	exponential, inverse and logarithmic functions, tangent and velocity
2		
3	2.2-5	limit definition, limit laws, epsilon-delta definition, continuity
4		
5		
6	2.6-9	limits at infinity and horizontal asymptotes, rates of change, derivative definition, derivative as a function
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8		
9	3.1-5	more rates of change, essential derivatives, differentiation rules: constant, constant multiple, sum, difference, power, product, quotient, chain
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11		
12		
13	MIDTERM 1	
14	3.6-10	higher derivatives, implicit and logarithmic differentiation, hyperbolic functions, related rates (~2 days)
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17		
18		
19		
20	9.4, 4.1-3	exponential growth and decay, extrema, extreme value theorem, critical values, mean value theorem, monotonicity and concavity, first and second derivative tests
21		
22		
23		
24	MIDTERM 2	
25	4.4-5, 4.7	indeterminate forms and l'Hospital's rule, curve sketching (~2 days) and optimization (~2days)
26		
27		
28		
29		
30	3.11, 4.9-10	linear approximations and differentials, Newton's method, antiderivatives
31		
32		
33	10.1,3,5-6	parametrically defined curves, polar coordinates, conic sections defined over the cartesian and polar coordinates
34		
35		
36		
37	REVIEW	