

**MATH 152**  
**Schedule of Lectures**  
**Stewart *Calculus Early Transcendentals* 6e**

CLASS	SECTIONS grouped by topic	LECTURES
1	5.1	area and distance, Riemann sum
2		
3	5.2	definite integral
4	5.3	fundamental theorem of calculus
5	5.4	indefinite integrals
6	5.5	substitution rule
7	6.1, 10.4	area between curves in cartesian and polar coordinates
8	6.2, 6.3	volume of a solid of revolution by disk and shell methods
9		
10	6.4, 6.5	work, average value of a function
11	7.1	integration by parts
12	REVIEW	
13	MIDTERM 1	
14	7.2	trigonometric integrals
15	7.3	trigonometric substitution
16	7.4	partial fraction technique
17	7.5, 7.6	strategies for integration and integration using tables
18	7.7	approximate integration
19	7.8	improper integrals
20	8.1-2, 10.2	arc length and area of a surface of revolution of explicitly and parametrically defined curves
21		
22		
23	REVIEW	
24	MIDTERM 2	
25	9.3	separable equations
26	11.1, 11.2	sequence and series
27	11.3	integral test and estimates of sum
28	11.4	comparison test
29	11.5	alternating series
30	11.6	absolute convergence and root and ratio tests
31	11.7	strategies for testing series
32	11.8	power series
33	11.9	representation of functions as power series
34	11.10, 11.12	Taylor and Maclaurin series, applications of Taylor polynomial
35		
36	Appendix G	complex numbers
37	REVIEW	