

Chapter	SEC	Topics		Monday	Tuesday	Wednesday	Thursday	Friday	
Integrals	5.1	Areas and Distances	Sept	23	24	25	26	27	
	5.2	The Definite Integral			5.1		5.2		
	5.3	The Fundamental Theorem of Calculus							
	5.4	Indefinite Integrals and the Net Change Thm	Sept	30	1	2	3	4	
	5.5	The Substitution Rule	Oct		5.3, 5.4		5.4, 5.5	7	
Appendix G Applications of Integrals	6.1	Aresa Between Curves	Oct	7	8	9	10	11	
	6.2	Volumes			6.1, 6.2		Exam 1		
	6.3	Volume by Cylindrical Shells							
	6.4	Work	Oct	14	15	16	17	18	
	6.5	Average Value of a Function			6.2, 6.3		6.4		
Techniques of Integration	7.1	Integration by Parts	Oct	21	22	23	24	25	
	7.2	Trigonometric Integrals			6.5, 7.1		7.2		
	7.3	Trigonometric Substitution							
	7.4	Integration of Rat'l Funct'ns by Partial Fractions	Oct	28	29	30	31	1	
	7.5	Strategy for Integration	Nov		7.3		Exam 2		
	7.7	Approximate Integration							
	7.8	Improper Integrals	Nov	4	5	6	7	8	
				7.4			7.5, 7.7		
Further Applications	8.1	Are Length							
	10.2	Parametric arclength	Nov	11	12	13	14	15	
	8.3	Applications to Physics and Engineering		Veterans Day Holiday	7.8		8.1, 10.2	last day to drop w/W	
	8.5	Probability							
Differential Equations	9.1	Modeling with Differential Equations	Nov	18	19	20	21	22	
	9.2	9.2 Direction Fields and Euler's Method			8.3		Exam 3		
	9.3	9.3 Separable Equations							
			Nov	25	26	27	28	29	
<p>All homework assignments and due dates are listed on WebAssign.</p> <p>These are the least amount of exercises you need to do. If you don't master the material well afterdoing WebAssign, work with more of the similar problems in the text.</p>					8.5		Thanksgiving	Thanksgiving	
				Dec	2	3	4	5	6
						9.1, 9.2		9.3	
			Dec	9	10	11	12	13	
							Final 4:00 – 6:00 p		

Student Learning Outcome(s):

- *Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
- *Formulate and use the Fundamental Theorem of Calculus.
- *Apply the definite integral in solving problems in analytical geometry and the sciences.