

Week 1	Wednesday	August	22, 2012	§1.5 The Concept of a Function	pg. 22
	Thursday	August	23, 2012	§1.6 Graphs of Functions	pg. 30
	Friday	August	24, 2012	§1.7 Introductory Trigonometry: The Functions $\sin \theta$ and $\cos \theta$	pg. 37
Week 2	Monday	August	27, 2012	§2.3 The Definition of the Derivative	pg. 58
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	Friday	August	31, 2012	§3.1 Derivatives of Polynomials	pg. 83
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	Wednesday	September	5, 2012	§3.3 Composite Functions and the Chain Rule	pg. 92
	Thursday	September	6, 2012	§3.4 Some Trigonometric Derivatives	pg. 98
	Friday	September	7, 2012	§3.5 Implicit Functions and Fractional Exponents	pg. 102
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	Thursday	September	13, 2012	§4.3 Applied Maximum and Minimum Problems	pg. 123
	Friday	September	14, 2012	§4.4 More Maximum-Minimum Problems	pg. 131
Week 5	Monday	September	17, 2012	§4.5 Related Rates	pg. 139
	Tuesday	September	18, 2012	§4.6 Newtons Method for Solving Equations	pg. 143
	Wednesday	September	19, 2012	§5.1 Introduction to Indefinite Integrals	pg. 163
	Thursday	September	20, 2012	§5.2 Differentials and Tangent Line Approximations	pg. 163
	Friday	September	21, 2012	§5.3 Indefinite Integrals: Integration by Substitution	pg. 170
Week 6	Monday	September	24, 2012	§5.4 Differential Equations: Separation of Variables	pg. 178
	Tuesday	September	25, 2012	§5.5 Motion Under Gravity: Escape Velocity and Black Holes	pg. 181
	Wednesday	September	26, 2012	Midterm 1	
	Thursday	September	27, 2012	§6.1 Introduction to Definite Integrals	pg. 190
	Friday	September	28, 2012	§6.2 The Problem of Areas	pg. 191
Week 7	Monday	October	1, 2012	§6.3 The Sigma Notation and Certain Special Sums	pg. 194
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	Wednesday	October	3, 2012	§6.5 The Computation of Areas as Limits	pg. 203
	Thursday	October	4, 2012	§6.6 The Fundamental Theorem of Calculus	pg. 206
	Friday	October	5, 2012	§6.7 Properties of Definite Integrals	pg. 213
Week 8	Monday	October	8, 2012	§7.1 The Intuitive Meaning of Integration	pg. 221
	Tuesday	October	9, 2012	§7.2 The Area between Two Curves	pg. 222
	Wednesday	October	10, 2012	§7.3 Volumes: The Disk Method	pg. 225
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	Wednesday	October	17, 2012	§7.8 Hydrostatic Force	pg. 252
	Thursday	October	18, 2012	§8.1 Introduction to Exponential and Logarithm Functions	pg. 260
	Friday	October	19, 2012	§8.2 Review of Exponents and Logarithms	pg. 261
Week 10	Monday	October	22, 2012	§8.3 The Number e and the Function $y = e^x$	pg. 264
	Tuesday	October	23, 2012	§8.4 The Natural Logarithm Function $y = \log x$	pg. 269
	Wednesday	October	24, 2012	§8.5 Applications: Population Growth and Radioactive Decay	pg. 277
	Thursday	October	25, 2012	§8.6 More Applications	pg. 287
	Friday	October	26, 2012	§9.1 Review of Trigonometry	pg. 292

Week 9	Monday	October	15, 2012	§9.2 The Derivatives of the Sine and Cosine	pg. 301
	Tuesday	October	16, 2012	§9.3 The Integrals of the Sine and Cosine	pg. 306
	Wednesday	October	17, 2012	§9.4 The Derivatives of the Other Four Functions	pg. 310
	Thursday	October	18, 2012	§9.5 The Inverse Trigonometric Functions	pg. 313
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Week 10	Monday	October	22, 2012	§9.6 Simple Harmonic Motion	pg. 324
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	Wednesday	October	24, 2012	§10.2 The Method of Substitution	pg. 337
				§10.3 Certain Trigonometric Integrals	pg. 340
Week 11	Thursday	October	25, 2012	§10.4 Trigonometric Substitutions	pg. 344
				§10.5 Completing the Square	pg. 348
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	Monday	October	29, 2012	§10.7 Integration by Parts	pg. 357
	Tuesday	October	30, 2012	§10.8 A Mixed Bag	pg. 362
Week 12	Wednesday	October	31, 2012	§10.9 Numerical Integration	pg. 369
	Thursday	November	1, 2012	§11.1 The Center of Mass of a Discrete System	pg. 384
				§11.2 Centroids	pg. 386
	Friday	November	2, 2012	§11.3 The Theorems of Pappus	pg. 391
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Week 13	Monday	November	5, 2012	§12.1 The Mean Value Theorem Revisited	pg. 398
				§12.2 The Indeterminate Form 0/0. L'Hospital's Rule	pg. 400
	Tuesday	November	6, 2012	§12.3 Other Indeterminate Forms	pg. 404
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				§12.5 The Normal Distribution	pg. 414
Week 14	Thursday	November	8, 2012	§13.1 What is an Infinite Series?	pg. 427
	Friday	November	9, 2012	Midterm 3	
	Monday	November	12, 2012	<i>Veteran's Day</i>	
	Tuesday	November	13, 2012	§13.2 Convergent Sequences	pg. 432
	Wednesday	November	14, 2012	§13.3 Convergent and Divergent Series	pg. 439
Week 15	Thursday	November	15, 2012	§13.4 General Properties of Convergent Series	pg. 445
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	Monday	November	19, 2012	§13.6 The Integral Test	pg. 455
	Tuesday	November	20, 2012	§13.7 The Ratio Test and Root Test	pg. 461
				§13.8 The Alternating Series Test	pg. 465
Week 16	Wednesday	November	21, 2012	<i>Thanksgiving Break</i>	
	Thursday	November	22, 2012	<i>Thanksgiving Day</i>	
	Friday	November	23, 2012	<i>Columbus Day</i>	
	Monday	November	26, 2012	§14.1 Introduction to Power Series	pg. 483
				§14.2 The Interval of Convergence	pg. 484
Week 17	Tuesday	November	27, 2012	§14.3 Differentiation and Integration of Power Series	pg. 489
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	Monday	December	3, 2012	§14.7 Operations on Power Series	pg. 514
Week 18	Tuesday	December	4, 2012	§14.8 Complex Numbers and Euler's Formula	pg. 521
	Monday	December	10, 2012	Final Exam at 12:00	