

MA 211
COURSE OUTLINE
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<u>WEEK</u>	<u>SECTIONS/TOPIC</u>	<u>HOMEWORK</u>
1	Intro to Course 6.1 Antiderivatives 6.2 Constructing Antiderivatives 6.3 Differential Equations	Pg. 285: 1, 3, 7, 9, 11, 13, 15 Pg. 292: 1, 3, 7, 9, 11, 13, 16, 17, 23, 27, 31, 34, 38, 40, 47, 53, 55, 57, 61, 63, 65 Pg. 297: 1, 5, 7, 9, 11, 17
2	6.4 Second Theorem of Calculus 7.1 Integration by Substitution 7.2 Integration by Parts	Pg. 302: 1, 3, 9, 12, 13 Pg. 318: 1, 7, 15, 18, 21, 31, 35, 45, 47 49, 55, 63, 79 Pg. 325: 2, 3, 9, 11, 13, 15, 19, 23, 27, 31, 35
3	7.3 Tables of Integrals 7.4 Algebraic Identities and Trigonometric Substitutions	Pg. 330: 3, 5, 7, 13, 15, 21, 31, 33, 36 Pg. 337: 1, 3, 5, 8, 10, 12, 15, 18, 33, 35, 37
4	7.5 Approx. Definite Integrals 7.6 Approx. Errors 7.7 Improper Integrals	Pg. 342: 1, 7, 9 Pg. 347: 1 Pg. 355: 5, 7, 9, 11, 13, 15, 17, 19
5	7.8 Comp. of Improper Integrals TEST 1	Pg. 359: 1, 3, 5, 7, 13, 15, 17, 21
6	8.1 Areas and Volume 8.2 Applications to Geometry 8.3 Polar Coordinates	Pg. 372: 1, 3, 5, 11, 13, 15, 19 Pg. 380: 3, 5, 6, 9, 17, 19 Pg. 389: 1, 3, 5, 7, 9, 11
7	8.4 Density and Mass 8.5 Applications to Physics	Pg. 397: 5 Pg. 406: 1, 3, 5
8	9.1 Sequences 9.2 Geometric Series 9.3 Convergence of Series	Pg. 441: 1, 3, 5, 7, 9, 13, 15, 17, 18, 21, 25 Pg. 448: 1, 3, 5, 6, 9, 13, 15, 19, 20 Pg. 454: 1, 3, 7, 9, 10, 11, 12, 17, 21
9	9.4 Tests for Convergence 9.5 Power Series and Interval of Convergence	Pg. 461: 1, 3, 5, 7, 9, 11, 13, 17, 19, 21, 25, 27 Pg. 469: 1, 3, 5, 7, 11, 15, 17, 19, 21
10	TEST 2 10.1 Taylor Polynomials	Pg. 484: 1, 3, 9, 13, 15, 17, 19, 29
11	Break 10.2 Taylor Series	Pg. 489: 1, 5, 7, 9, 13, 19, 21, 31
12	10.3 Finding/Using Taylor Series 10.4 Error in Taylor Polynomials 10.5 Fourier Series	Pg. 495: 1, 8, 9, 15 Pg. 501: 1, 3, 5, 11, 13 Pg. 512: 1, 3, 5, 9
13	11.1 What is a Differential Equation Break	Pg. 525: 1, 2, 3, 7, 9
14	11.2 Slope Fields 11.3 Euler's Method	Pg. 529: 1, 3, 5, 6, 9 Pg. 534: none
15	11.4 Separation of Variables 11.5 Growth and Decay	Pg. 539: 1, 2, 6, 7, 9, 13, 31 Pg. 546: 5, 6, 7
16	Review TEST 3	