

Calculus II – Schedule of Topics

Week	Lecture Topics	Supplemental Problems	Reading Assignment
1	Course Introduction 6.1: Natural Logarithm	Sec. 6.1: 1, 3, 11-33, 39-49, 53 (odd)	Read Sections 6.1-6.2
2	6.2: Inverse Functions 6.3: Exponential Functions 6.4: Inverse Trig Functions	Sec. 6.2: 1-21, 27-45 (odd) Sec. 6.3: 1-13, 19-41, 45-59 (odd) Sec. 6.4: 1-35 (odd)	Read Sections 6.3-6.5
3	6.5: Calculus of Inverse Trig Functions 6.6: Hyperbolic Functions	Sec. 6.5: 1-29 (odd) Sec. 6.6: 1-37 (odd)	Read Sections 6.6-7.1
Exam	Exam 1 is on Friday, September 18	Covers Sections 6.1-6.5	Read Chapter 6
4	7.1: Review of Integration 7.2: Integration by Parts 7.3: Trigonometric Techniques	Sec. 7.1: 1-39 (odd) Sec. 7.2: 1-37 (odd) Sec. 7.3: 1-31 (odd)	Read Sections 7.2-7.3
5	7.4: Partial Fractions Summary of Integration Techniques	Sec. 7.4: 1-35 (odd) Chapter 7 Review: 1-49 (odd)	Read Sections 7.4
6	7.6: Indeterminant Forms 7.7: Improper Integrals	Sec. 7.6: 1-41 (odd) Sec. 7.7: 1-33, 39-55 (odd)	Read Sections 7.6-7.7
7	Fall Break: No Classes Oct. 12-13 9.1: Sequences	Sec. 9.1: 1-41 (odd)	Read Sections 9.1
Exam	Exam 2 is on Thursday, October 15	Covers Sections 7.1-7.4 and 7.6-7.7	Read Chapter 7
8	9.2: Infinite Series 9.3: Integral Test	Sec. 9.2: 1-21 (odd), 27, 33-36, 43-45 Sec. 9.3: 1-35 (odd), 41, 43, 55-58	Read Sections 9.2-9.3
9	9.3: Comparison Tests 9.4: Alternating Series 9.5: Absolute Convergence / Ratio Test Summary of Convergence Tests	Sec. 9.4: 1-41 (odd) Sec. 9.5: 1-37 (odd)	Read Sections 9.3-9.5
10	9.6: Power Series 9.7: Taylor Series	Sec. 9.6: 1-39 (odd) Sec. 9.7: 1-37 (odd)	Read Sections 9.6-9.7
11	9.7: Taylor Series 9.8: Applications	Sec. 9.8: 1-17 (odd)	Read Sections 9.8
Exam	Exam 3 is on Friday, November 13	Covers Sections 9.1-9.8	Read Chapter 9
12	10.1: Parametric Equations 10.2: Calculus of Parametric Equations	Sec. 10.1: 1-19, 25-47 (odd) Sec. 10.2: 1-27 (odd)	Read Sections 10.1-10.2
13	10.3: Arc Length and Surface Area Thanksgiving Break: No classes, November 25-27.	Sec. 10.3: 1-25 (odd)	Read Sections 10.3
14	10.3: Arc Length and Surface Area 10.4: Polar Coordinates	Sec. 10.3: 1-25 (odd) Sec. 10.4: 1-49 (odd), 52, 57-61	Read Sections 10.3-10.5
15	10.5: Calculus in Polar Coordinates 8.1: Modeling 8.2: Separable Differential Equations	Sec. 10.5: 1-9, 15-43 (odd) Sec. 8.1: 1-49 (odd) Sec. 8.2: 1-35, 47-55 (odd)	Read Sections 8.1-8.2
Final Exam	SECTION 2: Friday, December 18, 8:00-11:00 am, in class	SECTION 5: Friday, December 18, 12:00-3:00 pm, in class	