

Week	Monday	Tuesday	Wednesday	Friday
1 (Jan 18-22)		MLK Day	First Day of Class (Syllabus Discussion)	Calc 1 Recap
2 (Jan 25-29)	Integration by Substitution	Integrals with Exp and Log	More Examples of Integration + Checkpoint 1 (DC1, IT1, IT2)	Integration By Parts
	In-Person Classes Start			
3 (Feb 1-5)	Practice on identifying the order in Integration by Parts	Time Management Workshop + Checkpoint 2 (DC1, IT1, IT2, IT3)	Trig Integrals of Type A, Revisit Trig Identities, Trig Integrals of Type B	Integration by Trig Substitution and Other Integration Techniques
4 (Feb 8-12)	Practice Problems	AEP 1 + Checkpoint 3 (DC1, IT1, IT2, IT3, IT4, IT5, IT6)	Area of a region between two Curves - using Horizontal and Vertical slices	Calculating Volume of Solid of Revolution - Disk Method
5 (Feb 15-19)	Calculating Volume of Solid of Revolution - Washer Method	Practice on Correctly Identifying Disk vs Washer method + Checkpoint 4	Arc Length of a curve, Surface Area of Solids of Revolution	Parametric Curves
6 (Feb 22-26)	Applications in Physics and Engineering - Work, Hydrostatic Pressure	Review + Checkpoint 5	Introduction to Differential Equations, Exponential Growth and Decay	Modeling Exponential Process - Half-life, Solving IVPs using Antiderivatives
7 (Mar 1-5)	Solving Separable Differential Equations	Practice Problems + Checkpoint 6 + AEP2	Improper Integrals + Review Infinite Limits	More on Improper Integrals
8 (Mar 8-12)	Comparison Theorem and p-Test + Checkpoint 7	Rest Day 1	Introduction to Sequences	Convergence and Divergence of Sequences
9 (Mar 15-19)	Introduction To Series - Partial Sums	Geometric Series + AEP 3 + Checkpoint 8	Divergence Test	Integral Test

10 (Mar 22-26)	Comparison and Limit Comparison Tests	Practice on Convergence Tests + Checkpoint 9	Alternating Series, Conditional Convergence	Practice of Absolute and Conditional Convergence
11 (Mar 29-Apr 2)	Ratio and Root Test	Practice on Convergence Tests + Checkpoint 10	More practice on correctly Identifying the Convergence Test	Practice Problems
12 (Apr 5-9)	Introduction to Power Series + AEP 4 + Checkpoint 11	Rest Day 1.5	Rest Day 2	Interval and Radius of Convergence
13 (Apr 12-16)	Representing Functions as Power Series - Differentiation and Integration	Checkpoint 12	Practice on finding Power Series Expansion	No Class (IS Symposium)
14 (Apr 19-23)	Taylor and Maclaurin Series	AEP 5 + Checkpoint 13	Finding and Using Taylor Series	Practice Problems
		Last day to Drop the course		
15 (Apr 26-30)	Review	Last Day of Class + Checkpoint 14	Reading Days	