

Course Schedule

Week	Dates	Content	Course Notes Sections
1	Jan 8 - 12	1. Review of Math 127 2. Sequences 3. Limits of Sequences, Series	1.1.1 - 1.1.2 1.1.3, 1.2
2	Jan 15 - 19	4. Geometric Series 5. Integral Test 6. Limit Comparison Test	1.3 1.4 1.5
3	Jan 22 - 26	7. Alternating Series, Ratio Test 8. Power Series and Convergence 9. Finding Power Series	1.6, 1.7 2.1.1 2.1.2
4	Jan 29 - Feb 2	10. Working with Power Series 11. Taylor Series 12. Binomial Series	2.1.3 2.2.1 2.2.2
5	Feb 5 - 9	13. Taylor Polynomials and Taylor's Theorem 14. Trigonometric Integrals 15. Trigonometric Substitutions	2.3.1, 2.3.2 3.1 3.2
6	Feb 12 - 16	16. Partial Fraction Decomposition 17. Integration by Partial Fractions 18. Integration by Parts	3.3.1 3.3.2 3.4
7	Feb 17 - 25	READING WEEK	
8	Feb 26 - Mar 1	19. Infinite Improper Integrals 20. Discontinuous Improper Integrals 21. Volumes	3.5.1 3.5.2 4.1
9	Mar 4 - 8	22. Volumes of Revolution (discs and washers) 23. Volumes of Revolution (cylindrical shells) 24. Arc Length	4.2.1, 4.2.2 4.2.3 4.3
10	Mar 11 - 15	25. Direction Fields and Euler's Method 26. Separation of Variables 27. Linear Differential Equations	5.1 5.2 5.3
11	Mar 18 - 22	28. Applications of Differential Equations 29. Parametric Curves 30. Parametrization of a Curve	5.4 6.1.1 6.1.2, 6.1.3
12	Mar 25 - 27	31. Derivatives of Parametric Curves 32. Area and Arc Length of Parametric Curves	6.2.1 6.2.2, 6.2.3
13	Apr 1 - 5	33. Polar Coordinates 34. Graphs in Polar Coordinates 35. Area in Polar Coordinates	7.1 7.2 7.3
14	Apr 8	36. Review	