

Course Schedule

Week	Dates	Content	Sections
1	Sept 6 - 8	1. High-School Calculus Review 2. Rates of Change, Tangent Line Approximation	1.1.1 1.1.2, 1.1.3
2	Sept 11 - 15	3. Differentials, Differential Equations 4. The Area Problem 5. Antiderivatives, Solving Differential Equations	1.1.4, 1.1.5 1.2.1 1.2.2, 1.2.3
3	Sept 18 - 22	6. Piecewise and Absolute Value Function 7. Integral Functions 8. Inverse Functions	2.1.1, 2.1.2 2.2 2.3.1
4	Sept 25 - 29	9. Inverse Functions con't, Exponential Functions 10. Exponential and Logarithm Functions 11. Exponential Growth, Logarithmic Scales	2.3.2, 2.4.1 2.4.2, 2.4.3 2.4.4, 2.4.5
5	Oct 2 - 6	12. Trigonometry Review 13. Modelling with Trig Functions 14. Inverse Trig Functions	2.5.1 2.5.2 2.5.3
6	Oct 7 - 15	READING WEEK	
7	Oct 16 - 20	15. Calculus on Trig Functions 16. Factorial Function, Implicitly Defined Functions 17. Logarithmic Differentiation	2.5.4 2.6, 2.7.1 2.7.2
8	Oct 23 - 27	18. Limits Review 19. Limits at Infinity, Infinite Limits 20. Asymptotes	3.1.1 3.1.2, 3.1.3 3.1.4
9	Oct 30 - Nov 3	21. Continuity 22. Indeterminate Forms 23. Indeterminate Products and Powers	3.2 3.3.1 3.3.2, 3.3.3
10	Nov 6 - 10	24. Intervals of Increase/Decrease 25. Local and Absolute Extrema 26. Intervals of Concavity	3.4.1 3.4.2 3.4.3
11	Nov 13 - 17	27. Curve Sketching 28. Curve Sketching con't, 29. Binomial and Quadratic Approximation	3.5 3.5 4.1.1, 4.1.2
12	Nov 20 - 24	30. Error in the Linear Approximation 31. Optimization 32. Properties of Definite Integrals	4.1.3 4.2 5.1
13	Nov 27 - Dec 1	33. Integration by Substitution 34. Sigma Notation and Riemann Sums 35. Area Between Curves	5.2 5.3.1 5.3.2
14	Dec 4	36. Approximating Integrals	5.3.3