

## M1201 Tentative Course Schedule

Lecture	Sections	Topics
1	2.1	The Tangent and Velocity Problems
2	2.2	The Limit of a Function
3	2.3	Calculating Limits Using Limit Laws
4	2.5	Continuity
5	2.6	Limits at Infinity, Horizontal Asymptotes
6	2.7, 2.8	Derivatives and Rates of Change, The Derivative as a Function
7	3.1, 3.2	Derivatives of Polynomials and Exponential Functions, The Product and Quotient Rules
8	3.3	Derivatives of Trigonometric Functions
9	<b>Exam 1</b>	
10	3.4	The Chain Rule
11	3.5, 3.6	Implicit Differentiation, Derivatives of Logarithmic Functions
12	3.7, 3.8	Rates of Change in the Natural and Social Sciences, Exponential Growth and Decay
13	3.9, 3.10	Related Rates, Linear Approximation and Differentials
14	4.1, 4.2, 4.3	Maximum and Minimum Values, The Mean Value Theorem, How Derivatives Affect the Shape of a Graph
15	4.4, 4.5	Indeterminate Forms and l'Hopital's Rule, Summary of Curve Sketching
16	4.7	Optimization Problems
17	<b>Exam 2</b>	
18	4.9	Antiderivatives
19	5.1	Areas and Distances
20	5.2	The Definite Integral
21	5.3	The Fundamental Theorem of Calculus
22	5.4	Indefinite Integrals and the Net Change Theorem
23	5.5	The Substitution Rule
24	6.1, <del>6.2</del>	Areas Between Curves, Volumes
25	<del>6.3</del>	Volumes by Cylindrical Shells
26	<b>Exam 3</b>	
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