Math 7A Calculus for Life Sciences I

Textbook – Calculus for Biology and Medicine 4th Edition by Neuhauser

Suggested number of 50-minute lectures:

2 lectures	(3.1) Limits
1.5 lectures	(3.2) Continuity
1.5 lectures	(3.3) Limits at Infinity
1 lecture	(3.4) Trigonometric Limits and the Sandwich Theorem
1 lecture	(4.1) Formal Definition of the Derivative
1 lecture	(4.2) Properties of the Derivative
1 lecture	(4.3) The Power Rule and Basic Rules of Differentiation
2 lectures	(4.4) The Product and Quotient Rules
1 lecture	(4.5) The Chain Rule
1.5 lectures	(4.6) Implicit Differentiation (Includes Related Rates)
0.5 lecture	(4.7) Higher Derivatives
1 lecture	(4.8) Derivatives of Trigonometric Functions
1 lecture	(4.9) Derivatives of Exponential Functions
2 lectures	(4.10) Derivatives of the Inverse, Logarithmic, and Inverse Tangent Functions
2.5 lectures	(5.1) Extrema and The Mean Value Theorem
1.5 lectures	(5.2) Monotonicity and Concavity
1.0 lecture	(5.3) Extrema and Inflection Points
1.5 lectures	(5.5) L'Hopital's Rule
1.5 lectures	(5.6) Graphing and Asymptotes