Math 7B Calculus for Life Sciences II

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

Suggested number of 50-minute lectures:

1 lecture	(5.10) Antiderivatives
2 lectures	(6.1) The Definite Integral
2 lectures	(6.2) The Fundamental Theorem of Calculus
1 lecture	(6.3.1) Cumulative Change
1 lecture	(6.3.2 – 6.3.3) Average Values and Mean Value Theorem
1 lecture	(6.3.4) Areas
1 lecture	(6.3.5) The Volume of a Solid (Disk and Washer Methods)
2 lectures	(7.1) The Substitution Rule
2 lectures	(7.2) Integration by Parts and Practicing Integration
2 lectures	(7.3) Rational Functions and Partial Fractions
2 lectures	(7.4) Improper Integrals
2 lectures	(7.8) Trigonometric Integrals*
2 lectures	(7.9) Trigonometric Substitution*
2 lectures	(8.1) Solving Separable Differential Equations
2 lectures	(8.2) Equilibria and Their Stability
1 lecture	(8.3) Differential Equation Models

* From APEX Calculus