

Math 5A Suggested Syllabus

(Based on 29 lectures)

Text: *Biocalculus, Calculus for the Life Sciences*, Stewart and Day, 2nd Edition

Lecture	Section	Topic
1	pp. xli; 1.1	Introduction
2	1.2-1.3	Functions
3	1.4	Exponentials
4	1.5	Logarithms
5	1.6	Sequences
6	2.1	Limits of sequences
7	2.2	Limits of functions at infinity
8	2.3	Limits of functions – finite
9	2.4	Algebraic methods of limits
10	2.5	Continuity
11	3.1	Derivatives
12	3.2	The derivative as a function
13	3.3	Differentiation formulas
14	3.4	Product and quotient rules
15	3.5	Chain rule
16		Review
17		Midterm
18	3.6	Exponential growth and decay
19	3.7	Log and inverse tangent
20	3.8	Linear approximations
21	4.1	Maximum and minimum values
22	4.2	Derivatives and graphs
23	4.3	L'Hopital's rule
24	4.4	Optimization
25	4.5	Recursion
26	4.6	Antiderivatives
27		Catch up and Review
28		Final Exam Review
29		Final Exam Review