

## Math 2B suggested syllabus (based on 29 lectures)

**Text:** Stewart, *Calculus: Early Transcendentals* or *Single Variable Calculus: Early transcendentals*, 8th Edition or UCI Custom Edition, 8th Edition.

Lecture	Section	Topic
1	4.9	Antiderivatives (review)
2	5.1	Areas and Distances
3	5.2	Definite Integral
4	5.3	Fundamental Theorem of Calculus
5	5.4	Indefinite Integrals and the Net Change Theorem
6	5.5	Substitution Rule
7	6.1, 6.2	Area between Curves, Volume
8	6.2	Volume
9	6.5	Average Value of a Function, Review
10		<b>Midterm #1</b>
11	7.1	Integration by Parts
12	7.2	Trigonometric Integrals
13	7.3	Trigonometric Substitutions
14	7.4	Integration by Partial Fractions
15	7.5	Strategy for Integration
16	7.8	Improper Integrals
17	11.1	Sequences
18		Review
19		<b>Midterm # 2</b>
20	11.2	Series
21	11.3, 11.4	Integral Test, Comparison Test
22	11.5, 11.6	Alternating Series Test, Absolute Convergece (start 11.6)
23	11.6	Ratio and Root Tests
24	11.7	Strategy for Testing Series
25	11.8	Power Series
26	11.9	Representations of Power Series
27	11.10	Taylor and Maclaurin Series
28		<i>Catch-up and Review</i>
29		Review for final

In case of a quarter with 28 lectures, skip the “Catch-up and review” day prior to the final.