Math 2B(summer) Suggested Syllabi

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

LECTURE	SECTION	TOPIC(S)
1	4.9, 5.1	Antiderivatives Review, Area and Distance
2	5.2, 5.3	Definite Integral, The Fundamental Theorem of Calculus
3	5.4, 5.5	Indefinite Integral and Net Change Theorem, Substitution Rule
4	6.1, 6.2	Area Between Curves, Volume by Slices (begin)
5	6.2, 6.5	Volume by Slices (end), Average Value
6	7.1, 7.2	Integration by Parts, Trigonometric Integrals
7	7.3, 7.4	Trig Substitutions, Method of Partial Fractions
8	7.5, 7.8	Strategy for Integration, Improper Integrals
9		**Midterm**
	11.1	Sequences
10	11.2	Series
11	11.3, 11.4	Integral Test, Comparison Tests
12	11.5, 11.6	Alternating series test, Absolute convergence, Ratio & Root tests
13	11.7, 11.8	Strategy for Testing Series, Power series (begin)
14	11.8, 11.9	Power series (end), Representing functions as Power series
15	11.10	Taylor series and Maclaurin series