

Week	Dates	Math 154 Syllabus (2017-Spring)
1	Feb 20-24	Sums and sigma notation The definite (Riemann) integral Integrability
2	Feb 27- March 3	Properties of the definite integral Computations of integrals as limits of sums Areas as limits of sums
3	March 06-10	Average value of a function Mean value theorem for integrals The Fundamental Theorem of Calculus Indefinite integrals The method of substitution
4	March 13-17	The method of substitution (continued) Integration by parts Trigonometric integrals Integrals of rational functions
5	March 20-24	Inverse trigonometric substitutions Tan(x/2) substitution Areas of plane regions between curves Volumes of solids: Disk method
6	March 27- March 31	Volumes of solids: Cylindrical shell method Arc length Areas of surfaces of revolutions
7	April 03-07	Review for Midterm-1 Improper integrals Midterm 1 (April 05 2017, Wednesday at 17:40)
8	April 10-14	Improper integrals (continued) Tests for improper integrals Sequences and convergence
9	April 17-21	Sequences and convergence (continued) Limit laws for sequences Squeeze theorem Monotonic bounded sequence theorem
10	April 24-28	More theorems on convergence Subsequences, Cauchy sequences Infinite series: Telescoping, harmonic, geometric
11	May 02-05	Properties of infinite series Convergence/divergence tests for positive series Alternating series Alternating series test
12	May 08-12	Review for Midterm-2 Alternating series estimation theorem Absolute/conditional convergence Rearrangements of infinite series Midterm 2 (May 10 2017, Wednesday at 17:40)
13	May 15-19	Power series Power series representations (expansions) Term by term differentiation and integration Maclaurin and Taylor series May 19 th National Holiday (Commemoration of Atatürk & Youth and Sports Festival, Friday)
14	May 22-26	Taylor's theorem and some applications Binomial series
		Final Exam (June 05 2017, Monday at 09:30)