Week 1 (9/16, 9/18): Introduction and motivations, Real number system

Week 2 (9/23, 9/25): Real number system, Introduction to point set topology

Week 3 (9/30, 10/2): Open and closed sets, The Bolzano-Weierstrass theorem

Week 4 (10/7, 10/9): Covering theorems, Compactness, Metric spaces

Week 5 (10/14, 10/16): Limits, Cauchy sequences, Completeness

Week 6 (10/21, 10/23): ***First exam*,** Continuity

Week 7 (10/28, 10/30): Continuous mappings and sets

Week 8 (11/4, 11/6): Continuity and connectedness

Week 9 (11/11, 11/13): Uniform continuity, fixed point theorem

Week 10 (11/18, 11/20): Monotonic functions

Week 11 (11/25, 11/27): Derivatives, Mean-Value theorem

Week 12 (12/2, 12/4): ***Second exam,*** Taylor’s formula, Partial derivatives, Differentiability

Week 13 (12/9, 12/11): *HAPPY WEEK*

Week 14 (12/16, 12/18): Functions of bounded variation

Week 15 (12/23, 12/25): Rectifiable curves

Week 16 (12/30): The Riemann-Stieltjes integrals, The Fundamental Theorem of Calculus

Week 17 (1/6, 1/8): Riemann condition, Integrators of bounded variation

Week 18 (1/13): ***Final exam***