Schedule of Math 171B, Spring 2020

The is a tentative schedule. The actual one depends on progress of the class.

Week 1:
• 3/31: Eigenvalues and Singular Values
• 4/02: Vector and Matrix Norms

Week 2:
• 4/07: Convergence of Sequences, Properties of Univariate Functions
• 4/09: Properties of Functions of Many Variables

Week 3:
• 4/14: The bisection method, and Newton’s method
• 4/16: Optimality Conditions (I)

Week 4:
• 4/21: Optimality Conditions (II)
• 4/23: Midterm I

Week 5:
• 4/28: Minimizing a Function of One Variable
• 4/30: Model-Based Methods for Functions of Many Variables (I)

Week 6:
• 5/05: Model-Based Methods for Functions of Many Variables (II)
• 5/07: Line Search Methods

Week 7:
• 5/12: Equality Constraints - Optimality Conditions (I)
• 5/14: Equality Constraints - Optimality Conditions (II)

Week 8:
• 5/19: Quadratic Problems with Equality Constraints
• 5/21: Midterm II

Week 9:
• 5/26: Inequality Constraints - Optimality Conditions (I)
• 5/28: Inequality Constraints - Optimality Conditions (II)

Week 10:
• 6/02: General Nonlinear Constraints
• 6/04: Review

Week 11:
• 6/08: Final Exam (3:00 - 6:00, Monday)