Math 142 - Weekly Schedule - Fall 2020

Textbook:  *Calculus for Business and Social Sciences* by Allen and Orchard, Texas A&M University Open Education Resource, 2021.

Note: This is a fall or spring schedule. In the summer, this schedule is accelerated by a factor of 3 to accommodate a 5-week session.

- **Week 1**  1.1
  Limits: Graphically and Numerically

- **Week 2**  1.2, 1.3
  Limits: Algebraically, Limits: At Infinity and Infinite

- **Week 3**  1.4, 2.1
  Continuity, Average and Instantaneous Rates of Change

- **Week 4**  2.2, 2.3
  The Limit Definition of the Derivative, Introductory Derivative Rules and Marginal Analysis

- **Week 5**  Review, Exam I (1.1-1.4 and 2.1-2.3)

- **Week 6**  2.4, 2.5, 2.6
  The Product and Quotient Rules, The Chain Rule, Implicit Differentiation and Related Rates

- **Week 7**  2.6, 3.1
  Implicit Differentiation and Related Rates, Analyzing Graphs with the First Derivative

- **Week 8**  3.2, 3.3
  Analyzing Graphs with the Second Derivative, The Graphing Strategy

- **Week 9**  Review, Exam II (2.4-2.6 and 3.1-3.3)

- **Week 10**  3.4, 3.5
  Absolute Extrema, Optimization

- **Week 11**  4.1, 4.2, 4.3
  Antiderivatives: Introductory Rules, Antiderivatives: Substitution, The Definite Integral

- **Week 12**  4.3, 4.4
  The Definite Integral, The Fundamental Theorem of Calculus

- **Week 13**  Review, Exam III (3.4, 3.5, and 4.1-4.4)

- **Week 14**  4.5, 4.6
  Average Value of a Function, Area Between Curves and Producers’ and Consumers’ Surplus

- **Week 15**  Review for Final Exam
  Final Exam covers all previous sections as well as Sections 4.5 and 4.6
  *Note: Thanksgiving is during this week.*

- **Weeks 16 & 17**  Final Examinations

Updated 08/5/2020 by AA