Math 142 - Weekly Schedule

Textbook: Calculus: Applications and Technology, 3rd edition, by Tomastik

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**  Review, 3.1
  Brief Precalculus Review, Limits and Continuity

- **Week 2**  3.1, 3.2
  Limits and Continuity, Rates of Change

- **Week 3**  3.3, 4.1
  The Derivative, Simple Derivative Rules and Marginal Analysis

- **Week 4**  4.2, 4.3, 4.4
  Product and Quotient Rules, Chain Rule, Derivatives of Exponential and Logarithmic Functions

- **Week 5**  Review, Exam I (3.1-3.3 and 4.1-4.4)

- **Week 6**  5.1, 5.2
  Analyzing Graphs with the First Derivative, Analyzing Graphs with the Second Derivative

- **Week 7**  5.3, 5.4
  Limits at Infinity, Curve Sketching Techniques

- **Week 8**  5.5, 5.6 (excluding Inventory Control)
  Absolute Extrema, Optimization

- **Week 9**  Review, Exam II (5.1-5.6)

- **Week 10**  5.8, 6.1
  Implicit Differentiation and Related Rates, Antiderivatives

- **Week 11**  6.2, 6.3
  Substitution, Estimating Distance Traveled

- **Week 12**  6.4, 6.5
  The Definite Integral, Fundamental Theorem of Calculus Part 2 and Average Value of a Function

- **Week 13**  Review, Exam III (5.8 and 6.1-6.5)
  *Note: In the fall, Thanksgiving is during this week so Exam III should be moved to Week 14.*

- **Week 14**  6.6 (excluding Lorentz Curves), 6.7 topic
  Area Between Curves, 6.7 topic: Producers’ and Consumers’ Surplus

- **Week 15**  Review for Final Exam and Final Examinations
  Final Exam covers all previous sections as well as sections 6.6 and 6.7 topic.

- **Week 16**  Final Examinations

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