## Math 142 - Weekly Schedule - Fall 2023

**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	<b>1.1, 1.2</b> Limits: Graphically and Numerically, Limits: Algebraically
• Week 2	<b>1.3, 1.4</b> Limits: At Infinity and Infinite, Continuity from a Calculus Perspective
• Week 3	<b>2.1, 2.2</b> Average and Instantaneous Rates of Change, The Limit Definition of the Derivative
	Note: Labor Day is during week 3.
• Week 4	Review, Exam I (1.1-1.4, 2.1, and 2.2)
• Week 5	<b>2.3, 2.4</b> Introductory Derivative Rules and Marginal Analysis, The Product and Quotient Rules
• Week 6	<b>2.5, 2.6</b> The Chain Rule, Implicit Differentiation and Related Rates
• Week 7	<b>2.6, 3.1, 3.2</b> Implicit Differentiation and Related Rates, Analyzing Graphs with the First Derivative, Analyzing Graphs with the Second Derivative
• Week 8	<b>3.2, 3.3</b> Analyzing Graphs with the Second Derivative, The Graphing Strategy
	Note: Fall Break is during week 8.
• Week 9	Review, Exam II (2.3-2.6 and 3.1-3.3)
• Week 10	<b>3.4, 3.5</b> Absolute Extrema, Optimization
• Week 11	<b>4.1, 4.2</b> Antiderivatives: Introductory Rules, Antiderivatives: Substitution
• Week 12	<b>4.3, 4.4</b> The Definite Integral, The Fundamental Theorem of Calculus
• Week 13	Review, Exam III (3.4, 3.5, and 4.1-4.4)
• Week 14	<b>4.6</b> Area Between Curves and Producers' and Consumers' Surplus
	Note: Thanksgiving is during week 14.

## • Week 15 4.6, Review for Final Exam

Area Between Curves and Producers' and Consumers' Surplus

## • Week 16 Review for Final Exam, Final Exams

Final Exam covers all previous sections as well as Section 4.6

## • Week 17 Final Exams

Final Exam covers all previous sections as well as Section 4.6