

**Tennessee Technological University
Mathematics Department**

Mathematics 1830: Applied Calculus

I. CO

- Graphical interpretation
 - Function value vs. Limit value
 - One-sided and Two-sided limits
 - Infinite limits
 - Limits at infinity
 - Continuity and discontinuity
- Analytical interpretation
 - Function value vs. Limit value
 - Notation for evaluating limits
 - Techniques for evaluating limits
 - Continuity and discontinuity

Slope

- Rates of change
- Differentiability
 - Definition
 - The Derivative Function
 - Differentiation Rules

VIII.