## Eastern Connecticut State University Advanced Placement Summer Institute AP CALCULUS AB JULY 6 – JULY 10, 2009

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## SYLLABUS/AGENDA

- Introductions and Welcome
- ➤ What is AB CALCULUS? Topical Outline
- Pre-Calculus and AP-Calculus Curriculum
- Pre-AP Pre-Calculus Access, Placement, Review
- ➢ Use of Graphing Calculator
- "Particle" Problems
- ➤ AB EXAM Overview: format, scoring, sample exams
- Motivation in AP Calc: Building A Successful AP Calculus Program - Expectations
- Assessing Student Learning in Calc AB
- Resource Materials for Teaching AP Calculus
- ➤ How to use your textbook in AP Calculus?
- > AP Central
- Slope Field and Differential Equations Clinic (Connection to Differential Equations)
- Teaching Area and Volume
- Teaching the Fundamental Theorem of Calculus
- ≻ Related Rates
- Global Review Problems for AP Exam
- ➢ Riemann Sums
- Open-Ended Exam/Multiple Choice Questions