

**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