Data Analysis, Algebra and Functions with Math Technology I Grades 6-10

This Academy will focus on developing a deeper understanding of various mathematics topics (Algebra and Functions, Data analysis and probability) through the use of graphing calculators. Teachers will learn about the different ways calculators can be utilized to enhance mathematics instruction and student motivation. Specific calculator functions that will be explored include: Memory Management; basic MATH operations, APPS in science and business; creating GRAPHS and STAT PLOTS; storing and sharing data; and creating TABLES of data. Teachers will be introduced to CBLII's and basic data probes and their uses in enhancing math instruction through collection and analysis of real data. Participants learn strategies for differentiating instruction based on student need and for embedding mathematical processes benchmarks within instruction and assessment. Elements of the Academy contribute to improving student performance on Ohio's achievement tests. TI 73, 82, 83, 84 models of calculators will be referenced during the academy.

Suggested Audience: Teachers of science or mathematics grades 6-10, special education teachers and those from high-need districts are encouraged to attend. No prior experience with graphing calculators is assumed. Teachers will have the use of technology (graphing calculators and probes) during the academy and will be able to borrow a class set of calculators during the academic year.

Institute Dates: June 23-27

Monday	8:30 am - 4:30 pm
Tuesday-Friday	8:30 am - 3:30 pm

Location: 231 Fawcett Hall, Wright State University

Optional Graduate Credit: 1.5 semester credit hours from the University of Dayton

Academic Year Follow-up: 13 hr follow-up

(additional 1.5 semester hours) 4:30 – 7:30 in August (TBA)
8:30 – 4:30 WOEA Day (October 17, 2008)*
4:30 – 7:30 in May (TBA)

*If your district does not observe WOEA Day, the EXCEL Center will reimburse your district for the cost of a substitute up to $100.