

# GRAPHING TECHNOLOGY Institutes - Summer 2011

West Chester University of Pennsylvania

**FOR MATHEMATICS AND SCIENCE HIGH AND MIDDLE SCHOOL TEACHERS**  
**Earn Three or More Graduate Credits, or 45 or more Act 48 hours**

The Department of Mathematics at West Chester University, PA is offering seven graphing handheld institutes during the summer 2011. All institutes are also available for three graduate credits. Graduate tuition, for those electing to use the institutes toward credits, is not included in the institute registration fee. Graduate tuition plus university fees for Pennsylvania State residents is \$1,334.00 for three graduate credits; and for out-of-state residents is \$2,055.00 for three graduate credits.

The institute registration fee, which is separate from the tuition, is \$550 per institute. This fee includes all books, institute curriculum and consumable materials, refreshments, lunch and a loaner graphing handheld. The West Chester University Teachers Teaching with Technology In-service /Pre-Service Professional Development Program is a PDE (Pennsylvania Department of Education) Act 48 approved activity. Institute participants taking the institute for noncredit will receive 45 Act 48 hours. Those participants taking it for 3 graduate credits will receive 3 PDE approved collegiate credits.

Those participants needing housing accommodations will be housed at the West Chester Holiday Inn, which is located approximately .5 miles from campus. The special rate per night is \$55.00 which includes all taxes and is single occupancy. Anyone wishing to reside at the West Chester Holiday Inn should just mark yes for housing on the registration form and submit payment with your registration fee. A room will be reserved for you. Participants may not get this group rate by calling the West Chester Holiday Inn themselves. For information about the West Chester Holiday Inn the number is 610-692-1900.

## THE WEEK OF JUNE 27TH TO JULY 1ST

**Algebra I using the TI-84 Plus Silver Edition/ TI-Nspire** – This institute is for teachers of pre-algebra and algebra I. Participants will use the TI-84 Plus Silver Edition, the CBL 2, CBR, and the TI-Nspire to explore pre-algebra and algebra concepts and problems. Participants will leave with classroom ready materials suitable for algebra I, and an understanding of the TI-technologies' mathematical and pedagogical features along with methods to use this handheld in the algebra classroom. (M-F 8 a.m. to 4:30 p.m.) (Instructor: Fred Decovsky)

**Advanced Mathematics with the TI-Nspire CAS** – This workshop will focus on Pre-Calculus and Calculus topics that come to life with the TI-Nspire CAS and the latest operating system. In addition to investigating tantalizing mathematical problems and the TI-Nspire Navigator System, participants will also receive practice with file management, the Teacher Edition Computer Software, and file transfer. Both beginners and experienced TI-Nspire users will benefit from numerous classroom-ready activities and the TI-Nspire files. (M-F 8 a.m. to 4:30 p.m.) (Instructor: John Hanna)

**Statistics using the TI-84 Plus Silver Edition/ TI-Nspire** – Participants in this workshop will explore the use of the TI-84 Plus Silver Edition/TI-Nspire graphing handheld to enhance the teaching and learning of statistics. Particular emphasis will be placed on a conceptual understanding of topics from introductory statistics through AP Statistics using the TI-84 Plus Silver Edition/TI-Nspire and other technologies (M-F 8 a.m. to 4:30 p.m.) (Instructor: David Scott)

## THE WEEK OF JULY 11TH TO JULY 15TH

**Exploring Geometry Using TI Technology** – The focus of this week long workshop is the exploration of geometry and algebra concepts using TI calculators, including TI-84 Plus Silver Edition, the TI-Nspire and the TI-Nspire CAS, along with the TI-Nspire Navigator System. Participants will investigate different teaching strategies and will have opportunities for hands-on experiences using a variety of algebra and geometry topics. Participants will also experience how these two topics and the connection between them specifically relate to PDE standards and assessments. (M-F 8 a.m. to 4:30 p.m.) (Instructor: Raymond Klein)

**Algebra II Using the TI-Nspire** – Participants in this institute will explore Algebra II concepts and problems using TI technology and computer technology as tools for teaching and learning. The TI-Nspire, the TI-Inspire CAS, the CBL2 and the CBR will be utilized. Classroom management, instructional strategies and technology tips including file management, collecting and sending files, data collection using the CBL2 and the CBR, online resources, and assessment, will also be covered. (M-F 8 a.m. to 4:30 p.m.) (Instructor: John Hanna)

**Effectively Using TI Technology in the Mathematics Classroom** – In this week long hands-on workshop, see how standards based lessons using Texas Instruments' tools can support effective learning and problem solving, increase student engagement and make mathematics instruction more meaningful and exciting. Participants will investigate how new graphing calculator technologies can help develop difficult to learn concepts, promote understanding, increase achievement and enable students to use them in a practical and meaningful manner. Mathematical topics covered will range from Algebra I to Pre-Calculus and the TI-84 graphing calculator and TI-Nspire handheld will be utilized. (M-F 8 a.m. to 4:30 p.m.) (Instructor: Fred Decovsky)

**Using the SMART Board in the Mathematics Classroom along with TI Technology** - Participants in this workshop will get "hands-on" training to creatively integrate the SMART Board, the TI-Nspire and the TI-Nspire Navigator System technologies into their classroom. Participants will learn to utilize the latest version of the TI-Nspire handheld along with Teacher Software in Algebra I through AP Calculus, to find appropriate activities and to create their own activities. Participants will learn how the TI-Nspire Navigator System works and how to incorporate the many powers of SMART Board into the mathematics classroom, including how to make lessons available online in pdf and video formats. Workshop participants will also obtain a CD with hundreds of teaching activities and ideas. (M-F 8 a.m. to 4:30 p.m.) (Instructor: Tom Reardon)

## REGISTRATION FORM

Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City, State, and Zip \_\_\_\_\_

Phone (cell) \_\_\_\_\_ (home) \_\_\_\_\_ Graduate credit? yes no Housing? yes no

E-mail address \_\_\_\_\_ SS# \_\_\_\_\_ DOB \_\_\_\_\_

(I only need your SS# and DOB if you are taking the institute for graduate credit)



Please circle below institutes you are registering for:

1. Algebra I 2. Advanced Math 3. Statistics 4. Geometry 5. Algebra II 6. Using TI-Technology 7. Smart Board

Mail to Dr. Gail Gallitano, Director  
West Chester University  
P. O. Box 2452  
West Chester, PA 19383

Make all checks payable to West Chester University.  
Please include your \$550 registration fee.  
For more information call Dr. Gallitano, at 610-436-2452;  
e-mail: ggallitano@wcupa.edu (Cell: 484-319-7117)  
fax: 610-738-0578