Preparing Students for HSPA

New workshops added – including special ed!

Standards-Based Mathematics Workshops for Grade 9-12 Teachers

Rutgers Center for Mathematics, Science, and Computer Education
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All workshops take place at Rutgers University-Piscataway unless noted: * Rutgers-Camden location

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Would you like to:

- Better prepare your students for NJ’s statewide assessments?
- Engage your students in the lessons that you teach?
- Incorporate standards-based hands-on activities that motivate your students?
- Relate what you are doing in the classroom to “real world” applications?

THE RUTGERS CENTER FOR MATHEMATICS, SCIENCE, AND COMPUTER EDUCATION (NJ DOE provider #2) is offering a number of highly interactive one-day professional development workshops that are applicable to all curricula taught by grade 9-12 teachers of mathematics. All workshops are based on the NJ Core Curriculum Content Standards in mathematics as they are reflected in the HSPA. All of these workshops will help you better prepare students for the statewide assessments and provide the resources and knowledge that you need to generate new and exciting standards-based lessons.

All workshops are full-day workshops at which participants will earn six (6) professional development hours. All workshops will take place at Rutgers University—New Brunswick (unless otherwise noted). Participants may attend single or multiple workshops in any order. Discounts are available for multiple registrations on a single purchase order.

Although some workshops address overlapping issues, teachers who attend multiple workshops will benefit from experiencing the different approaches the workshop leaders have to helping students meet the challenges of the HSPA. Our instructors are among the most experienced and respected workshop leaders in the state. The workshop topics are based on feedback and recommendations from NJ teachers and administrators.

You will leave these workshops with valuable tools to motivate your students, stimulate their curiosity, and promote a more positive attitude towards mathematics.

Joseph G. Rosenstein, Director
Professor of Mathematics, Rutgers University
Math in the Special Education Classroom – Exciting Lessons and Other Resources Outside of the Traditional Textbook to Get Your Students Motivated!

Dates: Thursday, September 28, 2006 Code: HSPA 092806
Thursday, December 7, 2006 Code: HSPA 120706
Thursday, March 22, 2007 Code: HSPA 032207

Time: 8:30 a.m - 3:00 p.m.

Presenters: Sherry Muenz, Linda MacVicar
Audience: Grade 7-12 math teachers and special education teachers

Do some of your students get lost as you follow the lessons in your traditional textbook? This workshop will provide exciting hands-on lessons not found in the traditional curriculum. Special attention will be given to resources found on the Web to invigorate your students and get them excited about mathematics! Participants will experience hands-on lessons in addition to working in the computer lab to access new lessons found on the web. Teachers will leave with materials ready to implement immediately in their classrooms.

Differentiated Instruction in the Middle/High School Mathematics Classroom

Date: Wednesday, October 4, 2006 Code: 100406
Time: 9:00 a.m. – 3:00 p.m.

Presenter: Roberta Rim
Audience: Grade 7-12 teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with the tools to create a learning environment where students are actively involved, solving meaningful problems, and working together to acquire knowledge. Practical strategies, hands-on activities, and the use of a variety of manipulatives will engage all students and meet the diverse academic needs of students in a heterogeneous classroom. Emphasis is on tiered lessons as a strategy to differentiate instruction.

Refining 6-12 Mathematics Curriculum and Instruction Based on What We Have Learned from Student Performance on the HSPA

Dates: Thursday, October 5, 2006 Code: HSPA 100506
Wednesday, November 15, 2006 (*Rutgers-Camden) Code: HSPA 111506
Thursday, May 3, 2007 Code: HSPA 050307

Time: 8:30 a.m. – 3:00 p.m.

Presenter: Robert Riehs, Math Specialist, NJ Department of Education
Audience: Grade 6-12 math teachers, supervisors, and high school special education teachers

This one-day workshop will address specific misunderstandings that students have consistently demonstrated on statewide assessments. Many of these misunderstandings relate to sixth-, seventh-, or eighth-grade expectations from New Jersey’s Core Curriculum Content Standards.
Participants will examine several of the most common misunderstandings and explore instructional activities and strategies which can be used to either modify a district’s formal 6-12 curriculum or simply refine the instruction in a particular mathematics classroom.

How to Effectively Incorporate Geometer’s Sketchpad at ALL Levels

Date: Friday, October 13, 2006     Code: HSPA 101306
Time: 8:30 a.m. – 3:00 p.m.
Presenters: Matthew Hanas, Chris Hanas
Audience: Grade 9-12 mathematics teachers, supervisors

Do your students have trouble constructing, identifying, and measuring geometric figures? Do you find it difficult to keep them engaged in your geometry lessons? Transform your lessons into exciting visual experiences! Discovery-oriented lessons using this software are easy to create and can be very appealing and useful for students. Geometer’s Sketchpad software will enable your students to construct figures from simple textbook diagrams to working models of the Pythagorean Theorem, perspective drawings, tessellations, fractals, animated sine waves, etc.

Workshop participants will gain an understanding of how to incorporate The Geometer’s Sketchpad software in Algebra I, Algebra II, Geometry, Precalculus, and Calculus classes. Experience with Geometer’s Sketchpad is not required.
Sharpen Critical Thinking and Problem Solving Skills Using GIS

Date: Friday, October 20, 2006   Code: 102006
Time: 9:00 a.m. – 3:00 p.m.   Special Fee: $160
Presenter: Debbie Gries
Audience: Grade 5-12 teachers

By using ArcExplorer, a free application, participants will explore how to use geographic information systems in their classrooms. Teachers will learn how using ArcExplorer can foster active learning in themselves and their students. They will learn how using GIS can help their students think about their world differently and in an interdisciplinary manner.

Helping Students Prepare Adequately for the HSPA

      Tuesday, January 16, 2007   Code: HSPA 011607
Time: 8:30 a.m. – 3:00 p.m.
Presenter: James Rahn
Audience: Grade 9-12 mathematics teachers, high school special education teachers

What type of activities are you incorporating in your classroom to adequately prepare your students for the 11th grade HSPA? Spend a day investigating how all students can use real data, manipulatives, and problem solving as they learn to think mathematically. The activities included in this workshop will help you change your classroom from a traditional textbook-oriented atmosphere to one that is both engaging and standard-based. The NJ Mathematics Standards will be the foundation for all the activities presented.
Developing Algebraic Concepts for the HSPA

Date:  Wednesday, November 1, 2006 (*Rutgers-Camden)  Code: HSPA 110106
       Wednesday, January 31, 2007  Code: HSPA 013107
Time:  8:30 a.m. – 3:00 p.m.
Presenter: James Rahn
Audience: Grade 9-12 mathematics teachers, high school special education teachers

Are your students struggling with algebra? Did you know that of all the mathematics topics addressed on HSPA, algebra holds the most weight? Do your students spend a lot of time trying to memorize formulas but never quite understand their meanings? This workshop will focus on the patterns and algebra standard. Participants will see how it is possible to build a visual picture of linear functions so that students don’t just memorize formulas but instead develop real meaning for slope and y-intercepts and how these two quantities appear in a geometric pattern. Similar questions about quadratic functions will be examined. We will then extend these activities so that students are looking at more than analytic and geometric representations of these functions. Participants will see how students can use graphs, tables, and verbal descriptions to help them describe the behavior of these two types of functions. The graphing calculator will be used to help relate graphs and tables for these two functions and to see how basic functions can be translated, reflected, or dilated. The activities included in the workshop will help your students build a better understanding of the Patterns and Algebra standard, thereby preparing them with solid knowledge for the HSPA.

Geometry Problems? Help Students Prepare for the Geometry and Measurement Standard on the HSPA

Date:  Wednesday, November 13, 2006
Time:  8:30 a.m. – 3:00 p.m.
Presenter: James Rahn
Audience: Grade 9-12 mathematics teachers, high school special education teachers

Are your students struggling with Geometry? Come and participate in activities that will enhance your students’ conceptual understanding as well as their reasoning skills in geometry. Participants will learn to use a variety of manipulatives including, geoboards, patty paper, and more. This workshop will concentrate on Strand A (Geometric Properties) of the Geometry and Measurement Standard. We will deal with the Pythagorean Theorem, 3-D Drawings, and Properties of Geometric Shapes. Woven into the workshop will be the idea of students’ using reasoning to support what they see going on in the activity. Teachers will go home with many activities they can use immediately in their classroom to help students visualize the geometric concepts required for the HSPA.

"Best geometry workshop I ever attended"
"Great ideas to help my students finally understand geometry"
"Wonderful materials to use back in my classroom"
Strategies to Prepare Special Education Students for the HSPA

Date: Friday, November 17, 2006 Code: HSPA 111706
Friday, January 19, 2007 Code: HSPA 011907

Time: 8:30 a.m. – 3:00 p.m.

Presenter: Karen Egan

Audience: Grade 9-12 special education teachers

Special education teachers sometimes are faced with enormous challenges when it comes to preparing their special needs students for the mathematics portion of the HSPA. This new workshop presents ideas to help your students boost their performance on the HSPA. Participants will learn strategies to make students comfortable with the vocabulary on the tests and increase their critical thinking skills through the use of open-ended questions. Teachers will take home practice lessons that can be implemented immediately for use in their own classrooms.
The Big Ideas in Probability and Data Analysis on the HSPA

Date: Wednesday, December 6, 2006  Code: HSPA 120606
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Angelo DeMattia
Audience: Grade 9-12 mathematics teachers, high school mathematics supervisors

Do you need a bank of fun activities that get at the “big ideas” of probability and data analysis as well as create unforgettable connections within and outside the traditional math content? This hands-on workshop will help you to build that bank. Since Standard 4 has increased in relevance (it now represents 30% of the score value on the HSPA), more connections to all math topics have become “standardized” in curricula materials. In addition to hands-on materials, participants will use graphing calculators and software to help solidify that understanding of the “big ideas” and the related connections.

Graphing Calculator Skills to Prepare Students for the HSPA

Date: Tuesday, December 12, 2006  Code: HSPA 121206
Time: 8:30 a.m. – 3:00 p.m.
Presenter: James Rahn
Audience: Grade 9-12 mathematics teachers, high school special education teachers

Do your students use the calculator as a crutch or as a tool? The graphing calculator is a powerful tool that should be used for more than just number crunching and obtaining a graph. Graphing calculators can give students the opportunity to look at ideas in more than one way. Come learn how to use the calculator to help your students understand ideas graphically, numerically, and verbally, as well as analytically, and to help them achieve a more in-depth understanding of algebra, patterns, and geometry. Teachers will leave the workshop knowing how to use the graphing calculator as a tool to help their students develop a richer understanding of concepts on which they will be assessed in the HSPA. TI-83 and TI-84 calculators will be provided to participants for use in the workshop.

Using Geometer’s Sketchpad to Enhance Geometry Instruction

Date: Wednesday, December 13, 2006  Code: 121306
Time: 9:00 a.m. – 3:00 p.m.
Presenter: Roberta Rim
Audience: Grade 7-12 geometry teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop will introduce the Geometer Sketchpad software program as a powerful tool to explore geometric concepts and make the study of geometry more meaningful and easier for students to understand. The ability to create and manipulate figures on the computer enables students to quickly visualize and produce many more examples, examine properties of the figures, look for patterns, and make conjectures. This make the study of geometry exciting and helps with students’ understanding.
**Engaging and Motivating All of Your Students with Discrete Mathematics!**

**Date:**  Friday, January 12, 2007  
**Code:**  HSPA 011207  
**Time:**  8:30 a.m. – 3:00 p.m.  
**Presenter:** Joseph G. Rosenstein  
**Audience:** Grade 7-12 mathematics teachers, 7-12 special education teachers, supervisors  

Discrete mathematics will make math concepts come alive for your students. It’s an excellent tool for improving reasoning and problem-solving skills, and is appropriate for students at all levels and of all abilities. Teachers have found that discrete mathematics offers a way of motivating unmotivated students and challenging honors students at the same time. This workshop will address the second two strands of Standard 4, provide an overview of the discrete mathematics expectations in the standards for middle and high school students, and will focus on some of the key ideas and applications of discrete mathematics that are referred to in Standard 4. In the morning, we will focus on vertex-edge graphs and their applications, and in the afternoon, we will discuss strategies for counting (including their use in probability).

**Helping ALL Students Achieve- How to Integrate Discrete Mathematics into the 9-12 Curriculum**

**Date:**  Friday, January 26, 2007  
**Code:**  HSPA 012607  
**Time:**  8:30 a.m. – 3:00 p.m.  
**Presenter:** Bro. Patrick Carney  
**Audience:** Grade 9-12 mathematics teachers, high school mathematics supervisors and special education teachers  

What do state proficiency exams, homeland security, and the TV show NUMB3RS have in common? Among other things, they all use discrete mathematics. This program will introduce and explain how you can incorporate these discrete math concepts into the 9-12 mathematics curriculum which you already teach as well as a great beginning for starting up a stand-alone discrete mathematics course. Activities will include exciting hands-on activities with real-world connections. Materials will be provided which can be implemented immediately into your classroom.
Teaching Precalculus Using Technology
Date: Thursday, February 1, 2007 Code: HSPA 020107
Time: 8:30 a.m. – 3:00 p.m.
Presenters: Suzanne Cranwell and Matthew Hanas
Audience: Grade 9-12 mathematics teachers, supervisors

The introduction of computer algebra systems (CAS) in the math classroom has made it challenging to create activities and assessments that test knowledge and understanding of precalculus topics while supplementing, rather than supplanting, traditional paper-and-pencil techniques. This workshop will introduce a variety of discovery-based activities and assessments that involve the use of the TI-89 calculator as well as Geometer’s Sketchpad and Converge software.

Teaching Math Effectively: Using What We Know About How the Mind Learns
Date: Wednesday, *February 7 & 8, 2007  Code: HSPA 020707
Time: 8:30 a.m. – 3:00 p.m.
Presenter: Stacy DelVecchio
Audience: Grade 9-12 mathematics teachers, special education teachers of mathematics, and mathematics supervisors

You’ve heard that research is being conducted about how the brain works. This two-day workshop focuses on how to apply the results of this research in your secondary mathematics classroom. What happens to information students see and hear? How does this information make it into long term memory? What can we do as educators to assist this process? This workshop will explore all of these questions and offer strategies you will be able to use in your classroom immediately as well as tips on designing lessons that incorporate brain research.
Incorporating Technology in the Mathematics Classroom

Date: Tuesday, February 13, 2007  Code: HSPA 021307
Time: 8:30 a.m. – 3:00 p.m.
Presenters: Matthew Hanas, Chris Hanas
Audience: Grade 9-12 mathematics teachers, supervisors

Are you interested in adding technology into your mathematics classroom and don’t know where to begin? This workshop will offer participants ideas on how to incorporate graphing calculator technologies, Geometer’s Sketchpad, Converge Graphing Software, and Tablet PC’s to supplement traditional paper and pencil techniques. These technologies make concepts come alive for your students by transforming functions, geometric figures, and algebraic formulas into visual presentations that enable your students to see their work graphically. All software, PC’s, and graphing calculators will be supplied for the workshop.

Using the Internet to Enhance Mathematics Instruction in the Middle/High School

Date: Thursday, February 15, 2007  Code: 021507
Time: 9:00 a.m. – 3:00 p.m.
Presenter: Roberta Rim
Audience: Grade 7-12 math teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with the multitude of web sites that have virtual manipula-
tives, interactive math games, skills practice, and tutorials to integrate into your curriculum to better meet the needs of ALL students. Strategies to increase student motivation and participation, improve students’ performance, make learning math exciting and fun, and integrate on-line resources to supplement your textbook will also be addressed.

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**Using the TI-83/ TI-83+/TI-84 Graphing Calculators for Mathematics Instruction**

Date: Wednesday, March 28, 2007  
Time: 9:00 a.m. – 3:00 p.m.  
Presenter: Roberta Rim  
Audience: Grades 9-12 math teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide staff with step by step instructions to learn the basics, to solve linear equations, to explore statistical data, and to integrate some class activities. The content of the workshop will be structured to meet the level of experience of the participants.

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**Hands-On-Math Grades 9-12**

Date: Wednesday, April 11, 2007  
Time: 9:00 a.m. – 3:00 p.m.  
Presenter: Roberta Rim  
Audience: Grade 9-12 mathematics teachers and paraprofessionals, special education staff, Title I staff members, math supervisors, and administrators

This workshop is designed to provide participants with the tools to create a learning environment where students are actively involved, solving meaningful problems, and working together to acquire knowledge. Practical strategies, use of a variety of manipulatives, and the use of technology will enhance your instruction to excite your students about learning mathematics.
Payment and Registration Information

To encourage implementation at your school, we are offering discounts to schools or districts that send multiple registrations on a single purchase order and to individuals that sign up for four (4) or more workshops. See the pricing schedule below:

- 1-3 Workshop Registrations: $195 each
- 4-9 Workshop Registrations (single individual or group): $175 each (10% discount)
- 10 or more Workshop Registrations (single individual or group): $155 each (20% discount)

Workshop fees include all materials, a continental breakfast and lunch.

Payment may be made by purchase order or check. Purchase orders and/or checks should be made out to: HSPA Workshops – Rutgers, the State University. See address below.

How to Register

NEW! WEB: Register at http://dimacs.rutgers.edu/k12-prof-dev/

PHONE: (732)445-4065 from Monday through Friday, from 8:00 a.m. to 4:00 p.m.

FAX: Fax form to (732)445-2894, 24-hours a day

MAIL: Send registration to:
    HSPA Workshops
    CMSCE, Rutgers University
    SERC Building, Busch Campus, 118 Frelinghuysen Road
    Piscataway, NJ 08854

Admittance to the workshop may be denied if no payment method is submitted by the day of the workshop and billing information is not completed. Once your registration is received complete with billing information, a confirmation letter including a map, directions, and parking information will be sent to you.

Cancellation Policy

A full refund minus a $25 processing fee per registration will be issued to the appropriate party if this office is notified in writing at least five (5) business days prior to the workshop date. If you cancel within five (5) business days, or if neither you nor a substitute attends the workshop without notifying us, no refund will be issued.

All workshops are subject to cancellation for insufficient enrollment, in which case participants will be notified five (5) business days in advance.

Other Programs

To obtain further information about our programs call (732)445-4065, email programs@dimacs.rutgers.edu or visit the website at http://dimacs.rutgers.edu/k12-prof-dev/
Registration Form

HSPA Standards-Based Mathematics Workshops for Grade 9-12 Teachers

To reserve a space in the workshop, send in the registration form promptly; do not wait for your district to submit materials for you. Your registration will not be processed unless the billing information below is completed.

(Use a separate copy of this form for each registrant – attach multiple registrations from same school/district together)

Last Name ______________________________________________________________________
First Name ______________________________________________________________________
Middle Initial ______________________________________________________________________
Badge Name (First Name to be printed on Name Badge i.e. “James” = “Jim”) ____________________________
Supervisor Name ____________________________________________________________________
Grade(s) Taught ____________________________________________________________________
School __________________________________________________________________________
School Address ____________________________________________________________________
School City ______________________________ State ______________ Zip____________________
Work Phone ______________________________________________________________________
Fax __________________________________________________________________________
Home Address ______________________________________________________________________
Home City ______________________________ State ______________ Zip____________________
Home Phone (need in case of inclement weather cancellation) ____________________________
Email __________________________________________________________________________

Please check appropriate box: (remember to attach separate forms for each registrant):

☐ 1-3 Workshop Registrations: ______x $195 = __________total due
☐ 4-9 Workshop Registrations: ______x $175 = __________total due
☐ 10 or more Workshop Registrations: ______x $155 = __________total due
☐ Special Fee Workshop Registrations: ____x $_____ = __________total due
☐ Payment will be made by purchase order (fill out form below).
☐ Payment will be made by personal check (include with registration).

Billing Information (Required) — Please fill in the following if using a Purchase Order for payment and the billing address is different from the school address above. If it is the same, please check the box below: Registrations will not be processed if the following information is not completed.  ☐ Please use the work address above

Billing Department Name ______________________________________________________________
Billing Address ____________________________________________________________________
Billing City ______________________________________ State ____________ Zip _______________

Please enter the workshop code number for each workshop you would like to attend (to register for more than eight, copy and attach additional sheets):

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HSPA Workshops

Please pass this brochure along to:

☐ Mathematics Supervisor
☐ Curriculum Leader
☐ Colleague