

Singapore Mathematics Summer Content Institute

Worcester State College

June 22-26, 2009 8:00 AM – 3:00 PM

Students in Singapore have the highest mathematics scores at the 4th and 8th grade levels in the **Trends in International Mathematics and Science Study (TIMSS)**. The **National Math Panel** called Singapore a “world leader in mathematics achievement.” Part of the reason is the approach taken in their elementary math textbooks, which emphasizes developing a strong understanding of the **Number and Operations Strand**. They teach problem solving using the model drawing process, which helps students develop a visual bridge to algebra. The curriculum is consistent with the new NCTM focal points

The primary goal of this institute is to deepen your understanding of the math you teach, regardless of whether you plan to use these books as your primary texts. Can you explain to your students why you can't divide by 0, or why multiplication algorithms work? Can you explain how to divide by a fraction and why the process works? Can you provide them with examples of real world situations involving division of fractions? Are you comfortable teaching multi-step word problems? The number and operations strand forms the basis for most K-12 mathematics. Strengthening your understanding will help you to be more effective as a teacher. The program will provide a supportive, yet challenging environment for professionals working together.

Participants will receive the Parker/Baldrige textbook “Elementary Math for Teachers” and copies of the 3A, 4A, 5A, and 6A Singapore student texts. This will enable participants to look at topics from both a teacher and student perspective. The program cost also includes a continental breakfast and lunch each day.

Course Instructor: Dr. Richard Bisk is professor and chair of the Mathematics Department at Worcester State College. He has worked extensively with K-12 teachers and their students over the past sixteen years. He has provided professional development using the Singapore Math materials since 2000 and has given presentations at national and international conferences on this work. He maintains a web site for this work at wwwfac.worcester.edu/smip/

Rooms in suites in our new residence hall are available for an additional fee of \$25.00 per night plus a linen fee. All suites have their own bathrooms and showers.

Cost for the five day program:

Register by May 15: \$725.00

Register by June 5: \$825.00

Questions: Contact Marie Velez at 508-929-8912 or mvelez@worchester.edu
Registration form is below.



**OFFICE OF RESIDENCE LIFE AND HOUSING
CONFERENCE HOUSING REQUEST
Summer 2009**

Last Name: _____ First Name: _____

Permanent Mailing Address: _____ P.O. Box: _____
Street

_____ City _____ State _____ Zip Code

Home Telephone #: _____ Alternative # (Cell): _____

I am requesting to stay on campus for the following workshop: **Singapore Mathematics Summer Content Institute: June 22 - 26, 2009**

Please check the following nights that you will be staying: S M T W TH

The total housing cost for Sunday, June 21 – Thursday, June 25 is **\$145.00**. This price includes linens and towels for the week. (\$25/per night plus \$20 linen fee)

Most rooms are part of suites containing two singles and two doubles.

I prefer a single room _____ a double room _____

I would like to room with the following person(s): _____

Any additional information or requests:

Applicant Signature

Date