



# Getting It\* Done

## With the **Health Care Initiative**

**Regional Health  
Occupations  
Resource Centers**

### Allied Health/Nursing Math Course

This course has been designed as a self-paced course that individuals can utilize in preparation for entry into allied health programs at California Community Colleges. The topics covered focus specifically on the math skills necessary to be successful in an allied health occupational area such as nursing, respiratory therapy, radiological technology, etc. Tech Prep programs can also utilize this course as students in the high school prepare to enter health occupations programs at the college level.

This course can also be used by instructors to review math skills, ensure competency, and increase math skills through the use of the practice exercises.

The development team consisted of Gene Sellers, Adjunct Instructor and Professor Emeritus Mathematics at Sacramento City College and Laurie Shepard, RN, MSN Nursing Instructor at Sacramento City College. Elwanda Gammill, MSN, MA, RN Professor Emeritus College of Marin

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### \*Business Solutions & Workforce Training

*Delivered Through  
Community Colleges  
and Their Partners*

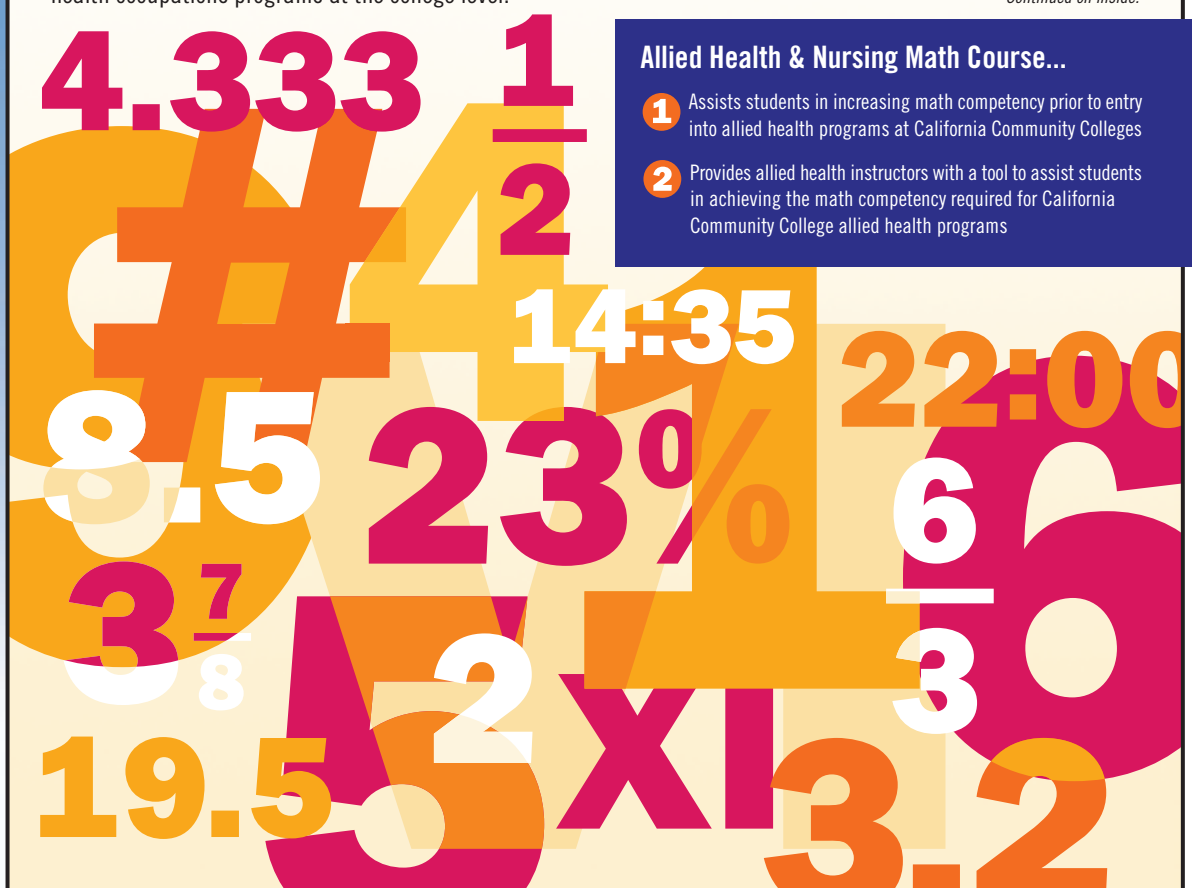
Initiatives of  
Economic & Workforce  
Development include:

- Advanced Transportation
- Biotechnology
- Performance Improvement
- Environment, Health, Safety  
and Homeland Security
- Health Care
- Multimedia & Entertainment
- Applied Competitive Technologies
- International Trade
- Small Business Development
- Workplace Learning

Administrator, Kay Ferrier  
Dean, Economic Development  
State Chancellor's Office

#### Allied Health & Nursing Math Course...

- 1** Assists students in increasing math competency prior to entry into allied health programs at California Community Colleges
- 2** Provides allied health instructors with a tool to assist students in achieving the math competency required for California Community College allied health programs



# Health Occupations Math Course Prepares Students, Aids Instructors

*Continued from front.*

assisted the development team in review and editing.

The Key Topics and subsections are illustrated with detailed examples and practice exercises. A detailed explanation is provided to explain in words what occurred at each step of the solving process. In addition, at the end of each chapter there are many Exercises that are keyed to the examples they illustrate.

To obtain the Allied Health Math Course CD, contact Linda Zorn, Butte College RHORC at 530-879-9069 or ZornLi@butte.edu.

## TOPICS COVERED:

- Introduction to Whole Numbers
- Operations on Whole Numbers
- Formulas and Equations
- Introduction to Common Fractions
- Operations on Common Fractions
- Introduction to Decimal Fractions
- Operations on Decimal Fractions
- The Structure of the Metric System
- Introduction to Percents
- Calculations Involving Percents
- Roman Numerals, Twenty-Four Hour Clock and Medications
- Dimensional Analysis

## CHAPTER FORMAT:

- 1 Applied Problem
- 2 Pretest
- 3 Key Topics including Practice Exercises
- 4 Exercises
- 5 Posttest

# First Community College Graduates of Sonography in Central California

Nineteen students were recognized in a pinning ceremony and reception on August 23, honoring them as the first graduating class from Santa Barbara City College's Diagnostic Medical Sonography (DMS) program. This is also the first graduating class of sonographers from a California Community College in the central third of the state. The program prepares students in the diagnostic procedure of sonography, also called ultrasound, used in the detection and treatment of diseases in virtually all body systems.

The 14-month career ladder program (which was recently expanded to 18

months) is a combination of classroom instruction and clinical experience primarily for those who have already completed a two-year training program in health occupations. Graduates receive a certificate of completion and are eligible to take the registry exams in sonography.

SBCC's DMS program was begun in June 2005 in response to a long-term need identified by health care facilities for more Sonographers. After RHORC conducted a needs assessment, SBCC received an Economic and Workforce Development Industry-Driven Regional Collaborative grant to launch the program (facilitated by RHORC). Debra McMahan, Chair of the Radiographic and Imaging Sciences Dept. has taken the program from her vision through co-directing, to now integrating Pod-Casting to expand students' access.

A program director continues to be needed.

Also honored at the graduation reception were some of the program's preceptors. Preceptors are experienced professionals who serve as clinical instructors to new employees and students in a clinical setting. They assist with the transition into the clinical environment in order to insure quality patient services, maintenance of organization standards and continuity of patient care in a cost-effective manner. Marsha Roberson, Director of the South Coast RHORC (and Co-Program Director), thanked the DMS preceptors for meeting the challenge of adding a student to their routine and for their positive approach, commitment to education, and professionalism. "These students could not have learned how to scan without your expertise, guidance, and commitment," she said.

Well-trained preceptors who are provided some type of compensation for this added responsibility can be effective recruiters for the next generation of staff.

Compensation can take the form of a lighter caseload of patients, moving up the clinical ladder with a salary differential, and/or a recognition event. Additionally, it is well recognized that when staff are provided the opportunity to grow and learn (as is the case when they complete preceptor training), they tend to stay in that facility.

*Below: Instructors Debra von Bernuth (back row, fourth from left), Nick Spina (far right) and Clinical Coordinator Carla Seder (second from right) join members of the first graduating class from SBCC's Diagnostic Medical Sonography program.*



*"providing education and training  
programs to meet emerging demands  
for health care industry workers..."*



# RHORC Center Updates



## San Diego/Imperial RHORC

*Robert Yarris, Director*

As a result of Proposition G, a \$247 million General Obligation Bond, the San Diego RHORC 10 Center Director is working in partnership with Grossmont HealthCare District and Grossmont College to develop a Regional Simulation Laboratory.

The "San Diego Center for Collaborative Healthcare Planning" has resulted in a grant application to the California Endowment in response to the outcomes of the WFP Seven-Year Healthcare Projections Survey which was initiated by the WFP. The RHORC 10 Center Director is acting as co-chair.

A third cohort for the Accelerated ADN RN Program has prompted discussions to institutionalize this curriculum at Grossmont College.

A SB 70 grant for the Regional Allied Health and Science Initiative was awarded to Grossmont College in partnership with the San Diego School Districts. The goals are to improve science performance, increase health career awareness, and support allied health training.



## Los Angeles County RHORC

*Jesus Oliva, Director*

During this project period the RHORC has six projects in progress that are funded by resources leveraged outside the grant and through grants and contracts that total \$2,692,828. Many strides were made with the Foreign Medical Graduates this project year. The RHORC-Welcome Back Center in partnership with the UCLA Family Practice Medical Residency program, offered a cohort of participants the opportunity to enter into a Pre-Residency program. The Nursing Pathway, developed by the LA RHORC, established the center as a "one-stop for nurses." The resource center, case management services and review courses have led to the success of 138 nurses passing their state board exam and obtaining employment.



## Orange/Inland Empire RHORC

*Mary O'Connor, Director*

The focus for the RHORC Region 8 this year will be faculty development. Several programs

are planned including: "A Framework for Understanding Poverty" on November 1-2, 2006 in San Bernardino; "Using Simulation Technology as a Teaching Strategy" for Orange/Inland Empire METI users on January 11-12, 2007; "Creative Teaching Strategies for Health Occupations Educators" with Michele Deck on January 29, 2007 in Ontario; and the 11th Annual Health Occupations Educator Institute on April 23-25, 2007 in Santa Ana.

The September Preceptor Instructor course (train-the-trainer course) in Irvine was very successful with 17 participants. More will be planned as needed. Critical Care Nursing and Telemetry courses are planned for winter/spring, summer, and fall. Currently 15 hospitals are participating. Summer/Fall programs enrolled 122 nurses, including many new graduate nurses.

The revised Resource Manual on Mentoring is now available. New curriculum projects for 2006-07 include a self-study ECG Interpretation CD and updating the Medical Assistant curriculum.



## South Coast RHORC

*Marsha Roberson, Director*

The Southcoast RHORC is in the 2nd year of the Governor's WIA grant with five partnering colleges. An additional 44 students have been enrolled in A.D. Nursing programs this year. A NCLEX Return on Investment Summary was prepared to demonstrate the cost-effectiveness of growing employers' own RNs from foreign-educated nurses who are working as nurse assistants and LVNs. Employers offering one day off/week for nurses to complete the NCLEX Success for Repeat Test-takers course can make the difference in nurses' success (courses in February and March '06). Collaboration with industry partners and Moorpark College is in progress to offer a cost-effective, consolidated preceptor course.

Regional planning is in progress for meeting industry needs in Radiographic Technology as well as for pandemic influenza preparation.

Program support is being provided to Allan Hancock College (co-supporting C.N.A. instructor position), Antelope Valley and College of the Canyons (new training programs), Cuesta (paramedic equip-

ment & alcohol/drug training needs assessment), and SBCC (Sonography).



## South Bay Region RHORC

*Matthew Grayson, Director*

South Bay RHORC, North Valley Workforce Improvement Board (NOVA), and Bay Area Workforce Collaborative Fund (BAWFC) combined resources to offer 17 additional courses in Nutrition, Anatomy, Physiology, and Microbiology at eight different community colleges, serving over 450 students, June 2005 to July 2006. Over 1,500 surveys were collected from students to determine their intended educational plans. Students were asked if they have applied or intended to apply into nursing, Radiology Technologist, respiratory therapy, medical lab technician, dental hygiene, or other Allied Health program. Information may prove to be useful to administrators and planners to predict growth or decline in health occupation programs by tracking enrollment trends in prerequisite courses.

Simulation education may resolve nursing and allied health capacity issues for California while increasing the performance of recent graduates entering the workforce. The Betty Gordon and Moore Foundation sponsored the development of five simulation education centers located throughout the Bay Area. South Bay RHORC in support of this project has and will provide faculty development workshops. Faculty development on how to use and infuse the education methodology into the curriculum is critical to successful implementation.



## Interior Bay RHORC

*Janey Skinner, Director*

The Interior Bay Area RHORC announces the appointment of a new Director, Janey Skinner, MPH, who is already involved with several new projects: supporting Radiologic Technology education through the fall RTEC/CSRT conferences; working with Kaiser Permanente and two colleges to expand training of healthcare interpreters; assisting with a career ladders project in Livermore; and co-convening a regional workgroup of colleges and employers on training in response to the Mental Health Services Act. This RHORC is also heading up a

cross-Bay collaborative for training front-line health and human service workers, involving numerous employers, City College of San Francisco and Berkeley City College.



## Central RHORC

*Juliet Atkins, Director*

Kathleen Schrader RN, PhD Director of the Central Region RHORC, has taken a position as Dean of Math, Sciences and Health Professions at Hartnell College in Salinas, CA. In her place Hartnell has named Juliet Atkins, RN as Interim Director. Juliet comes to RHORC with a strong background and a great amount of experience in the areas of critical care and trauma nursing. Juliet is working on several grant funded projects as director and is in the process of constructing a team, which will involve several colleges, to offer two pilot programs; Medical Laboratory Technician (MLT) and Certified Coding specialist which will be offered as distance education programs statewide.



## North/Far North RHORC

*Linda Zorn, Director*

Linda Zorn, Director of the Butte College RHORC provided a workshop on Test Construction for the region presented by Bette Case DiLeonardi, Ph.D., R.N., B.C., with over 50 participants. By popular request, Fred Lee will be presenting his workshop "If Disney Ran Your Hospital, Some Things You Would do Differently" on February 2, 2007 in Chico. An ultrasound/sonography labor market survey was completed for Yuba College. The Home Health Aide Curriculum has been revised by the Marshall Medical Center Home Health Agency. The Northstate Rural Workforce Collaborative, formed May 12, is moving ahead with goals, objectives, and grant applications. RHORC is sponsoring participation at the Curriculum Mapping workshop to link high school and community college outcomes.

# BRN Survey Management Information System

The California Board of Registered Nursing in cooperation with the California Community Colleges and the Moore Foundation has developed a comprehensive Annual Nursing Program Survey for the nursing programs in California. A multi-disciplinary team of representatives of Associate Degree Nursing Programs, Baccalaureate Nursing programs, the California Board of Registered Nursing, and the California Community Colleges Chancellor's Office met on an ongoing basis to develop the instrument. The survey is an attempt to consolidate into one master survey to meet the needs of a variety of stakeholders for information regarding the "pipeline" of Registered Nurses in California Schools of Nursing. Due to the increased interest in the status of Nursing program applicants and graduates in California a variety of groups were seeking information on pipeline statistics from the Chancellors' Office, the BRN, and from nursing program directors directly. This data was required to assist policy makers make decisions about the nature of the

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SURVEY."

projected nursing shortage in California and the ability of the existing programs to produce sufficient graduates to meet the need for increased numbers of nurses as well as provide a culturally diverse nursing workforce.

The types of data required included statistics regarding the age, gender, and demographics of entering nursing students as well as graduates. Additional information was requested of the survey respondents regarding the success rates of students in nursing programs as well. Information on the nature and demography of the existing nursing faculty was also requested.

Concern was expressed by members of the survey design committee regarding the availability of the data to complete the survey for nursing program directors. Rapid access to information of this nature is not readily available to nursing programs directors. It was felt that completion of the survey might prove a difficult task for already overburdened nursing program directors dealing with the logistics and implementation of a variety of program expansion grants across the state.

To address the issue, the EWD Health Care Initiative Director, a member of the BRN Education Advisory Committee, developed a comprehensive Management Information System directly aligned to the questions asked in the BRN Survey. The program runs on a PC in a Windows environment. MS Access 2003 is the database system required to run the program. To ensure rapid deployment of the system and increase ease of use, a documentation manual was developed to guide the user in running the program. The user manual also includes a "cross-walk" for the program explaining which reports answer which survey questions. The MIS System is available from the EWD Health Initiative Office at Sacramento City College at (916) 558-2569 or by email to Jim Comins, EWD Healthcare Initiative Director at [cominsj@scc.losrios.edu](mailto:cominsj@scc.losrios.edu). It can also be downloaded along with the documentation manual in the form of an executable Zip file from the Statewide Health Occupations Website at [www.healthoccupations.org](http://www.healthoccupations.org).

## Regional Health Occupations Resource Centers

### North/Far North RHORC Butte College

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Chico, CA 95928  
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### Interior Bay RHORC City College of San Francisco

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### San Diego/Imperial RHORC Grossmont College

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### Central RHORC Hartnell College

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### South Bay RHORC Mission College

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### Los Angeles County RHORC Mt. San Antonio Community College

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### Orange/Inland Empire RHORC Golden-West College

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### South Coast RHORC Santa Barbara City College

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Santa Barbara, CA 93109-9990  
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