

The University of Texas at
Arlington School of Nursing

School of Nursing

A Laerdal Center of Excellence

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SMART HOSPITAL

An innovation whose time has come



Revolutionizing Healthcare
Education & Training

The Smart Hospital

The Smart Hospital at The University of Texas at Arlington serves as a national demonstration center for education of healthcare providers and research and development of healthcare innovation. It is planned to accommodate the needs of the region as an emergency response site in the event of bio-terrorism or natural disaster. The Smart Hospital provides the "man-machine" interface needed for students and healthcare providers to gain proficiency and confidence in care procedures and processes using state-of-the-science equipment and technology. High fidelity simulators that replicate all human physiological functions, including death, serve as patients. Using planned "what if" scenarios and training approaches like those shown to be effective in the aviation and military healthcare industry, students and healthcare providers gain or enhance their performance proficiency in the competencies needed to provide safe, quality care in acute care and emergency situations.

Phase I includes a Smart Emergency Department supported by a Congressionally Directed Award. It will serve as an educational resource to prepare providers to staff rural and community urgent and emergency care departments. The Smart Hospital provides the laboratory for multidisciplinary teams engaged in cutting edge projects. Topics include therapeutic environments and environmental aids, functional efficiencies in care delivery processes and practices, technology and communications integration, and interfaces between the delivery of care and the design of settings in which care is provided.

Outcomes and Benefits

Educational

- Standardized performance outcomes
- Data based performance
- Increased level of confidence and competency at graduation
- Improved quality of care and patient safety
- Enhanced clinical skills

Continuing Education

- Certification programs validating clinical competency
- Certification based on valid/reliable assessment data
- Cross training capacity
- Hands-on refresher courses using simulation patients
- Distance education for rural healthcare providers

Economic and Workforce Development

- Increased graduation of BSN prepared RN's
- Regional site for multidisciplinary training and certification

Research and Development

- Flagship for patient simulation research and evidence-based practice
- New healthcare product Beta Test Site
- Vendor demonstration and clinical trial site
- Healthcare environmental design testing site
- Multidisciplinary research (architecture, business, computer science, nanotechnology, robotics, psychology, public health, social work, kinesiology, information systems)

Disaster and Emergency Response

- Community training
- Multidisciplinary emergency response training and certification
- Surge capacity



The University of Texas at Arlington

The University of Texas at Arlington (UTA), located on a modern, 392-acre campus in the center of the Dallas/Fort Worth metroplex, is a comprehensive teaching, research and public service university offering an array of bachelor, master, doctoral and special professional degrees. The highly diversified student body comes to UTA from around the world. With an enrollment of over 25,000 students, UTA is the second largest of the 15 institutions comprising the University of Texas System. Among the many specialized institutes and centers that will support the Smart Hospital are the Automation and Robotics Research Institute, the North Texas Defense Research Institute, the Converging Biotechnologies Center, the Center for Electronic Materials, Devices and Systems, and the Nanotechnology Center.

The UTA School of Nursing

The UTA School of Nursing (SON) offers BSN, RN-BSN, Master's, Post Master's and PhD Programs. It has an international reputation for quality education. It is ranked in the top 25% of graduate programs by *U.S. News & World Report*. With a total enrollment of about 800 undergraduate students and 350 graduate students, it is one of the 16 largest schools of nursing in the U.S. and the largest graduate nursing program in Texas. The Master of Science in Nursing program prepares nurse administrators and nurse practitioners in primary care (adult, pediatrics, family, gerontology and psychiatric mental health) and acute care (adult, emergency and pediatric). Graduates from the PhD program are prepared to become nurse scientists with roles as educators and researchers to meet the needs of culturally diverse and vulnerable groups. The School of Nursing has a long and distinguished history as a pioneer in the use of cutting edge technology as a tool to enhance the delivery of its nursing education programs.



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