

CENTERS + INSTITUTES

The Centers of Excellence at the Frances Payne Bolton School of Nursing expose students first-hand to nursing research, global health care systems, evidence-based practice, initiatives in aging care, self-management, end-of-life science, inclusion of persons with disabilities into research, and flight nursing.

Dorothy Ebersbach Academic Center for Flight Nursing

The Dorothy Ebersbach Academic Center for Flight Nursing, formerly the National Flight Nurse Academy, serves as part of the MSN program's Adult-Gerontology Acute Care Nurse Practitioner Flight Nursing subspecialty. It is the first formal training program of its kind to prepare nurses at the advanced practice level to provide care to individuals outside of hospitals, but at a hospital level of care.

Nursing students of all levels, including acute care nurse practitioner (ACNP) students, specializing in flight nursing at Case Western Reserve University train in the nation's first state-of-the-art simulator built in a full-scale Sikorsky S76 helicopter. The helicopter simulator allows faculty to input any two flight coordinates in the world, the time of day, weather pattern, and level of turbulence for students to experience the flight as though it was actually occurring. The helicopter features the most advanced medical equipment with authentic aerial views projected within the windows and the motion platform provides 11 degrees pitch and roll that mimics changing altitudes and weather conditions throughout the flight. The learning environment allows students to experience the physical confines of an actual helicopter while practicing the delivery of patient care to high fidelity human patient manikins to create the most realistic training of caring for critically injured patients from takeoff to landing. The center also has a static full scale ambulance for students to practice effective patient hand-offs from first-responders including fire, rescue, EMT, and Paramedics. The center is located on the ground floor of the HEC directly below the Steris Perioperative Lab allowing faculty to simulate taking the patient from the helicopter or ambulance up the elevators, directly to surgery. Both the helicopter and ambulance are equipped with video and audio capabilities to capture student interactions during formative and summative evaluations and provide the means for debriefing in the center or in any of the adjacent classrooms or debriefing rooms. The DEACRN has a large screen video display board to support any interprofessional training within the center.

Quality and Safety Education for Nurses (QSEN) Institute

The QSEN Institute is a comprehensive, competency based resource center for faculty and clinical nurse educators to empower nurses with knowledge, skills, & attitudes to improve quality & safety across healthcare systems. QSEN addresses the challenge of educating nurses with the knowledge, skills, and attitudes (KSA) necessary to continuously improve the quality and safety of the healthcare systems in which they work.

The QSEN Institute hosts a National Conference each year which is designed to attract innovators and nurture faculty and nursing leaders for the improvement of quality and safety education. The conferences highlights innovations in curricular design and teaching strategies that accomplish QSEN competency development. Research related to quality

and safety education in pre-licensure, advanced practice programs and clinical practice is also shared.

University Center on Aging and Health (UCAH)

By the year 2040, a staggering number (approximately 21.7%) of the US population will be persons 65 years of age and older. Elder care is projected to be the fastest growing employment sector within the health care industry. UCAH at Case Western Reserve University serves international, national, and local communities by providing an interdisciplinary platform for gerontological education, research, and services. A key objective of UCAH is to increase the number of students studying gerontology, and utilize its partnerships to promote interdisciplinary collaboration in research and education.

Sarah Cole Hirsh Institute for Best Nursing Practices Based on Evidence

The Sarah Cole Hirsh Institute for Evidence-Based Practice is an endowed research and training center to promote the implementation of evidence into clinical practice. Established in 1998 with the generous endowment by Sarah Cole Hirsh, the center focuses on education, research, and innovation in evidence-based practice implementation. Interprofessional courses are offered to students and clinicians to facilitate both the practice and science of implementation. The center's focus areas include quality improvement, safety, and the care of older persons with the goal to achieve the Quadruple Aim (better health, improved patient experience, lower costs, provider well-being, and health equity).