The Broward College Health Sciences Simulation Center is a 66,000 square foot building. The Center mirrors an Acute Care Hospital with an Ambulance Bay reflecting the urgency of emergency transport, medical care and intake. This area will feature a working ambulance where students will off load to the ER Triage Room for treatment or admission to one of the 9 individual hospital or clinic type rooms.

The second floor hospital rooms comprise a Birthing Suite, Medical-Surgical, Critical Care and ED Room with each room equipped with real hospital furniture, medical gases, including oxygen, compressed air and suction. There is an emergency medical gas shut-off valve to simulate a power outage that may occur in a major storm or fire.

Our state-of-the-art manikin family are all very human like with blinking eyes, chest movement, heart and lung sounds, blood pressure pulses and a computerized EKG tracing.

All of the simulated patient experiences are video recorded using a very sophisticated system that allows for replay so students and faculty can critique their interactions and identify areas for improvement (reflective debriefing).
The Health Sciences Simulation Center provides quality, interprofessional, experiential learning, utilizing innovative curriculum, comprehensive clinical preparation, and modern collaborative healthcare simulation practices in a brand new state-of-the-art facility. Our focus is preparing Broward College graduates to be competent, confident, and compassionate health professionals.

Our Mission

Provides both entry-level students and experienced healthcare workers a safe, controlled environment to practice realistic scenarios and acquire critical thinking skills.

Serves to maximize student academic success by providing hands on training in real world scenarios, designed to support, develop and improve students' cognitive and psycho-motor abilities.
Memorial Healthcare Systems
Ambulance ER Entrance

Emergency Medical Services will be able to pull up outside the Emergency Department overhang in an Ambulance and actually transfer care from EMS to Nursing and other allied health care providers of their simulated patient.

Emergency Triage & Reception Desk
Triage is a system of sorting that is based on giving treatment first to the patients who need it most. The Health Sciences Simulation Center contains a real life state of the art Triage room located on the first floor. This space is used for simulating patients arriving at the emergency department for medical emergencies, pre-hospital setting, disasters, and other clinical urgencies.

Fast Track / Exam Rooms
The Fast Track / Exam Rooms area of the Emergency Department are where urgent care assessment and treatment can be provided. This area is flexible to allow for Dental Office Emergencies and EMS intervention in MD office as well.
The cardiovascular lab has three Harvey® Cardiopulmonary Simulators, built with the purpose of training students in bedside cardiovascular assessment skills. This training helps students to identify and describe normal and abnormal heart and lung sounds. In addition, with Harvey®, the students can learn more than 30 different abnormal heart sounds, that are difficult to find in a real hospital environment.

Harvey® comes with an innovative sound system, consisting of a transmitter and stethoscopes, which can be used by small or large groups of students.

The auditorium is located on the ground floor of the HSSC building and has a seating capacity of 109. It has the capability of hosting a variety of events from conferences, live simulation on the front stage to broadcasting webinars or showing films with surround sound. The Dr. Michael A. Chizner Auditorium is a tribute made possible through the generosity of Rosemary Duffy Larson.
The area of simulation center that provides the magic to give a mirrored clinical experience. The control room on the second floor is raised and has four different control desks that have a direct view into the simulated hospital rooms. The control room on the first floor has direct view into two rooms and the capability to indirectly view 5 other rooms.

Medical-Surgical Room
The Medical-Surgical Suite is one of the busiest units where patients are admitted. The type of patients range from cardiac, pulmonary, abdominal surgery to orthopedic surgeries. The manikin, SimMan3G is programmed to mirror over 300 diseases with resulting vital signs, computerized test results as well as spontaneous speech with the caregiver.

Emergency Department
The Emergency Department (ER) is a set of rooms that allows for critical, lifesaving interventions by students in Nursing and EMS programs.
Dr. Fred L. Scott
Birthing Suite

The Mother/Baby Birthing Suite allows the students in all health disciplines to care for a pregnant patient and their new born child. This simulator allows for the students or health care professional to gain the experience of caring for a pregnant female during the three stages of labor regardless of their program.

Critical Care

The Critical Care Suite design is to mirror an ICU / Step Down Unit where the patient has complex disorders that may require mechanical ventilation and / or advanced resuscitation skills that allows the students to use critical skills to treat and stabilize life threatening conditions with real equipment.
What Are Students Saying? About the BC Simulation Center

**Nursing Student**

Kerline Clarke  | December 2015

“I prefer simulation due to the fact that I can independently act as the patient’s nurse and apply what I know. In some cases I am able to identify what I do not know and work on my deficiencies.”

**Dental Hygiene Students**

Class of 2015

“I enjoyed learning how to respond in different dental emergency situations. I was impressed with how the simulator imitated a real-life patient care setting. I did not expect to panic when the situation of a medical emergency arose. I was pleased with myself on certain parts of the situation as how I reacted.”

**Respiratory Therapy Students**

RT Graduate  | October 2015

“As a recent BC graduate, my simulation experience gave me the required critical thinking skills and experience to troubleshoot a tracheostomy patient’s respiratory distress that the senior respiratory therapists, nursing staff and physician had been unable to find a solution. The clinical solution was based on a simulation we ran as students in the simulation center (tracheostomy false tract). A new tracheostomy was placed and the patient’s condition quickly improved. As a graduate of Broward College’s Respiratory Program, I was beaming with pride and the hospital staff were impressed at the quality of troubleshooting that I provided.”

**EMS & Paramedic Students**

March 2015

“An exhilarating learning experience in a cutting edge facility. The hands-on real life scenarios challenge your knowledge and learning capabilities. The best part is being able to listen, view, critique your team while watching your scenario which is fully recorded. The best learning experience I have ever been offered.”
Waiting Room (Pre-Brief Area)
The Waiting Room / Health Sciences lounge is where students meet to get their assignment. Some students may be directed to watch the simulation via video feed into the lounge. Skills review videos may also be played prior to the simulated patient scenario where a specific skill will be required in the care of the patient. It also allows a place to practice IV starts using a virtual system as needed.

Debriefing Room
This room is a critical part of simulation called the debriefing or post conference room. The recorded simulation is shown to the participants. This is when they get to see themselves in action during the simulation and can make self and team evaluations based upon the standard of care and learning objectives. It is widely supported that by watching their actions in the debriefing session that more learning occurs. Clinical faculty guide the case reflections, highlight key objectives and share pearls of wisdom.

Skyfold Collapsible Room Divider
Allows the creation of flexible space for various simulation scenarios. The entire wall is a double-sided white board that is motorized and provides excellent acoustics when in the down position.

Central Supply Room
Manual mobile storage shelving system gives a space-saving solution for storing all the necessary supplies needed for simulation. Ergonomic handles allow for the easy movement of the carriages from left to right to create an aisle.

Dirty Utility Room
Contains an industrial deep stainless steel sink for cleaning equipment or preparing different moulage fluids for use in simulation.
The Health Sciences Simulation Center is designed to provide a clinical simulation environment for all types of nursing and allied health programs, including the healthcare community at large.

Students engaging in clinical simulation experiences represent AD Nursing and RN-BSN, Respiratory Therapy, EMS (EMT and Paramedic), Dental Hygiene and Dental Assisting, Medical Assisting, Pharmacy Tech, Radiology, Nuclear Medicine and Radiation Therapy programs.

The Department of Continuing Education/Workforce Development Courses that incorporate simulation include Critical Care and Emergency Department Nursing, as well as Peri-Operative Nursing. Future community simulation programs will cover a wide range of training needs including Community Healthcare / Disaster Resources.

Did you know in 2015…

» AD Nursing program graduated 321 with a 96% pass rate on 1st attempt on NCLEX-RN.
» Medical Assisting graduated 16 with 14 passing the CMA, AAMA for 87.5%.
» Dental Hygiene graduated 16 with a pass rate on 1st attempt NBDHE 94%.
» EMS Paramedic Program graduated 153 with a 97.4% pass rate on 1st attempt on the State of Florida PMD License Exam.
» EMS Emergency Medical Technician Program had 105 of 136 graduates pass on the first attempt for a passing rate of 77.21% on the NREMT exam.

Capabilities

Provides an area for victims to be decontaminated during a simulated HAZMAT training exercise. This flexible design provides an entire area that can be roped off for ambulance delivery of multiple victims as well. The interior design provides a dressing room and a dedicated egress to the outside away from the main ED entrance.
In the Essence of Caring.....Involvement.....Giving

We are grateful to the following individuals and organizations whose generous philanthropy and partnership make it possible to promote advanced simulation learning experiences at the Health Sciences Simulation Center.

These names reflect philanthropic donations as of February 29, 2016

» Anonymous
» Broward Health
» Health Foundation of South Florida
» The Krause Family Foundation
» Mrs. Rosemary Duffy Larson
» Memorial Healthcare System
» Dr. Laurie L. Scott and Robert W. Barron, Esq.
» Gertrude E. Skelly Charitable Foundation
» F. Louis and May Jean Wolff Foundation
» VITAS
» Lillian S. Wells Foundation

For Funding Opportunities

Please contact the Broward College Foundation at 954-201-7414 or visit browardcollegefoundation.org

Trustees of the Lillian S. Wells Foundation:
(Left to Right) Jim Ulmer, Barbara Wells and Walter Bell
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Tours available by appointment. Email your request to HSSC@broward.edu
Facility rental information available for non-profit and profit organizations.