



## Dr. Edwin Davis & Dorothy Balbach Davis Global Center for Advanced Interprofessional Learning

The Davis Global Center, headquarters for the Interprofessional Experiential Center for Enduring Learning (iEXCEL<sup>SM</sup>) program, will be a state-of-the-art interprofessional clinical simulation facility on the University of Nebraska Medical Center (UNMC) campus in Omaha, Neb. This 191,884 square foot center is purposefully sited proximal to the UNMC colleges and Nebraska Medicine hospitals and clinics. The Davis Global Center will serve as the catalyst for an integrated statewide simulation initiative. All levels of the center will work together as one to create a safe yet innovative learning environment as well as a venue for research and business development.

### Lower Level: iEXCEL Simulated Community Care

- Realistic, simulated, two-level home care unit setting, including a bedroom and bathroom. Health care professionals will use this home care unit for training in a wide variety of scenarios, such as emergency response, transfers to and from bed, and home safety evaluations.
- Simulated ambulance bay, providing opportunities to practice the transportation of patients and the transfer of care from emergency medical services to hospital.

### Ground Level: National Center for Health Security and Biopreparedness

- Highly specialized simulation training labs designed to prepare federal health care personnel and other professionals to care and conduct procedures for patients with highly infectious diseases.
- Quarantine facilities

### Level 1: iEXCEL Visualization and Virtual Reality

Advanced virtual and augmented reality, including:

- 3D, Virtual Immersive Reality and holographic technology to inspire and foster curriculum innovation and industry collaboration.

### KEY FEATURES

- Holographic Theater (130 seats) features a holographic stage that can produce extraordinary life-like virtual images, including telepresence.
- iEXCEL Helix is a 280-degree curved screen immersive environment, displaying 2D and 3D images individually or simultaneously. Multiple-windowing capabilities encourages groups to collaborate on a 132M pixel canvas.
- iEXCEL iSpace is a five-sided (walls + floor + ceiling) 3D laser immersive environment that will expand learning and research and development opportunities. For example, iEXCEL iSpace will offer clinicians and researchers a new way to develop clinical treatment modalities.

### Level 2: iEXCEL Interprofessional Simulation

- Realistic clinical spaces where clinical competencies and team communication strategies are learned, practiced and tested.
- Two simulated care units in which any patient care scenario can be created in simulated environments that combine high-fidelity, life-like simulators with real-world clinical equipment.

#### KEY FEATURES

- Simulated Acute Care Unit will be comprised of a realistic, simulated operating room, nursing station, labor and delivery room, patient rooms, a pediatric care unit and debriefing rooms.
- Simulated Critical Care Unit will be comprised of a realistic, simulated emergency department, a trauma unit, an intensive care unit, patient rooms, an imaging room and debriefing rooms.
- Prebriefing, Debriefing Rooms and Procedure Labs will provide breakout spaces that allow for session preparation, review and discussion of recorded sessions, and areas for skill-specific learning.

### Level 3: iEXCEL Surgical and Interventional Skills

Provides opportunities to learn and enhance basic and advanced surgical skills in realistic surgical settings using fresh tissue and advanced surgical simulators. Serves as a venue for collaboration with industry for training workshops and for research and development.

#### KEY FEATURES

- Surgical Skills Suite with 20 operating room bays and a command center that allows surgical technicians to record and broadcast sessions locally, nationally and globally.
- Hybrid Operating and Interventional Suite where highly technical surgical training sessions are conducted.
- Procedural Surgical Skills Labs where learners use surgical simulators to practice and improve essential skills such as hand-eye coordination, depth perception and suturing.



**A**



**B**

*A – Hybrid operating and interventional suite*

*B – Simulated, two-level home care unit*

*C – Main lobby*

*D – Interprofessional simulation entrance*



**C**



**D**