



Nursing Simulation Labs at LA Southwest College: Training for Tomorrow, Today

Innovation, Technology & Sustainability Committee

BuildLACCD

October 21, 2020



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Nursing Program at LA Southwest College

- *Program Highlights*
 - *100% NCLEX rates for two consecutive quarters*
 - *State-of-the-art curriculum, facilities, and technology*
 - *BRN accreditation and pursuing national accreditation now*
- *Challenges*
 - *Addressing technology and accessibility for all students*
 - *Addressing future needs for new technology to supplement in-hospital learning*
- *Process*
 - *Multiple meetings with the entire LASC Nursing Department and BuildLACCD over 9 months*
- *Partnership*
 - *Collegial consultation and planning*



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Project Overview

1. Simulation Lab Modifications:

- Three new hospital beds with headwalls simulators
- Four new simulators with VR software/hardware with ceiling mounted cameras and microphones
- Four “Smart Manakins” and associated technology
- Control Station includes AV rack connected to AV system
- Debriefing station for 16 students

2. Skills Labs Modifications:

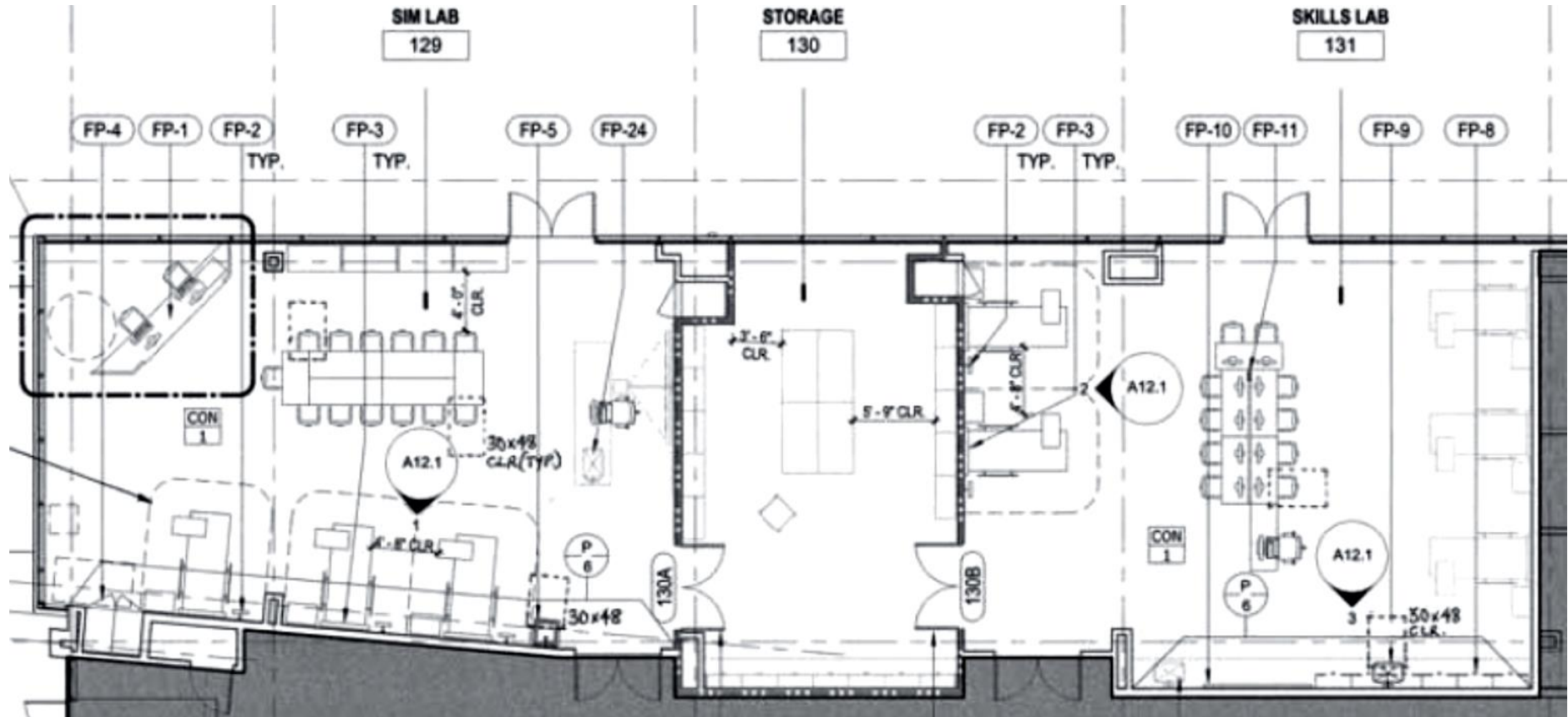
- Upgraded from three to five new hospital beds with headwalls
- Cameras for streaming to Simulation Lab for Instructor oversight in both spaces
- New Nurse Anne Simulator

3. Classroom and Support Space Modifications:

- 36 new laptops, charging carts for testing and furniture to allow for flexible learning scenarios
- Ceiling mounted PTZ cameras over learning spaces



Simulation and Skills Lab Overview



First Floor - Floor Plan of the School of Career Technology Education building



“Smart Manikins”



Room 129 – Simulation Lab
SoCTE



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Mixed Reality Glasses



Provided by Microsoft HoloLens



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Instructors Control Station

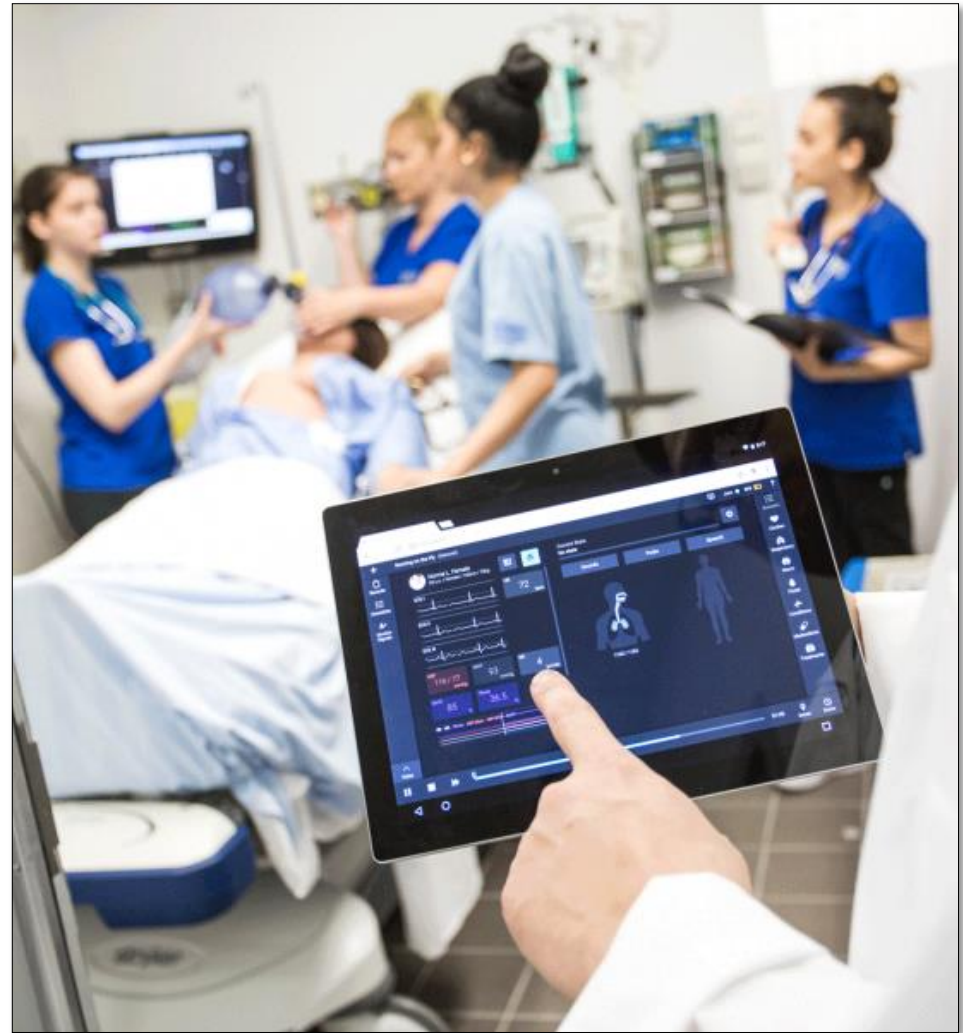


Room 129 – Simulation Lab
SoCTE



Learning Space Software

- Mobile tablets used for hands-on healthcare scenarios
- Control Station for Recording
- Patient Monitors integrated with manikin and software showing live vitals



Provided by CAE



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Six (6) Upgraded Flexible Classrooms/Labs



Room 217 – Classroom
SoCTE



Six (6) Upgraded Flexible Smart Classrooms/Labs

- New laptops and charging cart
- Full Wi-Fi Coverage (25 Access Points)



Image by TrippLite



Meet Juno, Ares, Luna, Lucina and Nurse Anne



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Mixed Reality Demonstrations



[CAE LucinaAR](#) is the world's first augmented reality childbirth simulator with mother-baby physiology. Learners may experience real-life birth scenarios as they experience 3D visualization from active labor through birth.



University of Tampa Department of Physician Assistant Medicine faculty and students experience [CAE AresAR](#) for Microsoft HoloLens 2 for the first time.



Learning Experience Transformed

- Cutting-edge, hands-on training
- Simulations equivalent to in-hospital experience
- Enhancing student learning
- Technology supporting the future of the industry



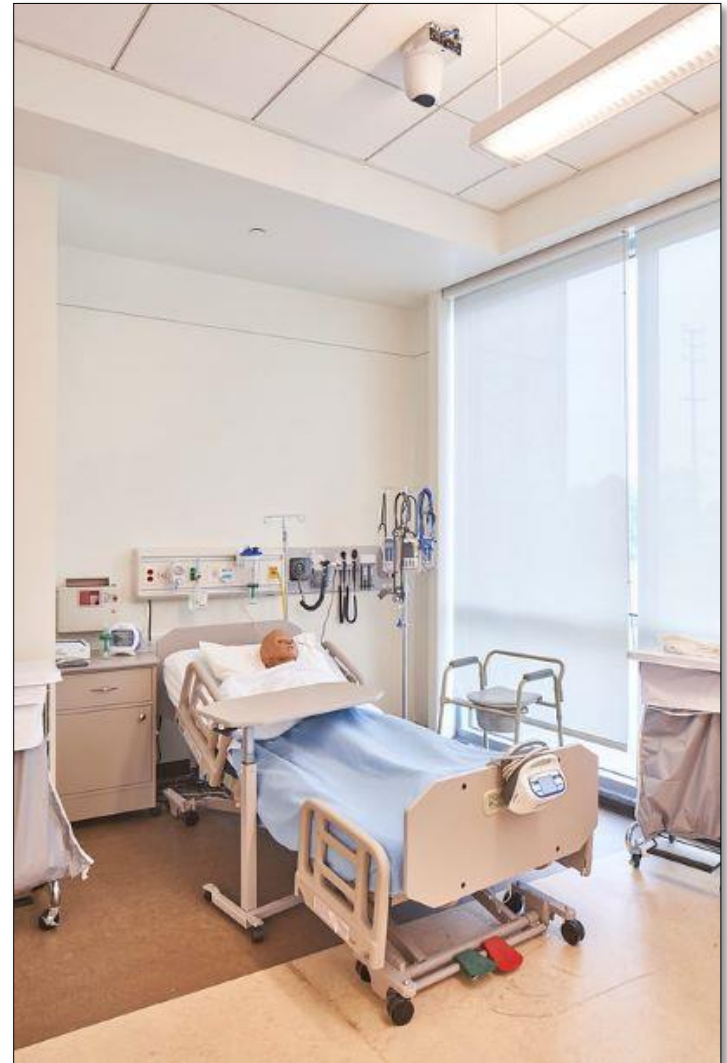
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Acknowledgments

Joint collaboration between the District, Southwest College and BuildLACCD to expediate and turn this project into reality. Special thanks to:

- Carmen Lidz
- Dr. Rueben Smith
- Dr. Seher Awan
- Dr. Catherine Azubuike
- Sheila Joshway
- Indiana McClellan
- Nadine Farquharson
- Nekpen Isibor
- Dr. Tangelia Alfred
- Daniel Hall
- Alex Nelson
- Jorge Mata
- Garrett Sasahara
- Aaron Guerrero
- Neal Cantin
- Edwin Van Ginkel
- Hakim Chambers
- Sunil Shah
- Melissa Makovec
- Kent Becraft
- Enrique Abarca
- Robert Rendon
- David Innis
- Mark Al-Soufi
- Molly Doogan
- Danielle Fuller
- Aundria Armstrong
- Jay Tourgoutian



Thank You

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