

CUSTOMER SUCCESS STORY

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FLETCHER TECHNICAL COMMUNITY COLLEGE

# FLETCHER TECHNICAL COMMUNITY COLLEGE SURGICAL TECHNOLOGY PROGRAM



JULY 2021

# THE DISCOVERY

The Associate of Applied Science in Surgical Technology at Fletcher Technical Community College is a six-semester, 65 credit hour program. It consists of two semesters of prerequisite coursework and four semesters of surgical technology courses. The prerequisite courses are offered face-to-face day and/or evening, and online. Classes in the surgical technology program meet face-to-face with some virtual components incorporated. Class sizes are limited to 12 seats in a cohort.

Upon successful completion of the curriculum, the student will qualify to take the National Certification Exam for Surgical Technologists. The certifying exam is written and administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).

The Associate of Applied Science in Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).



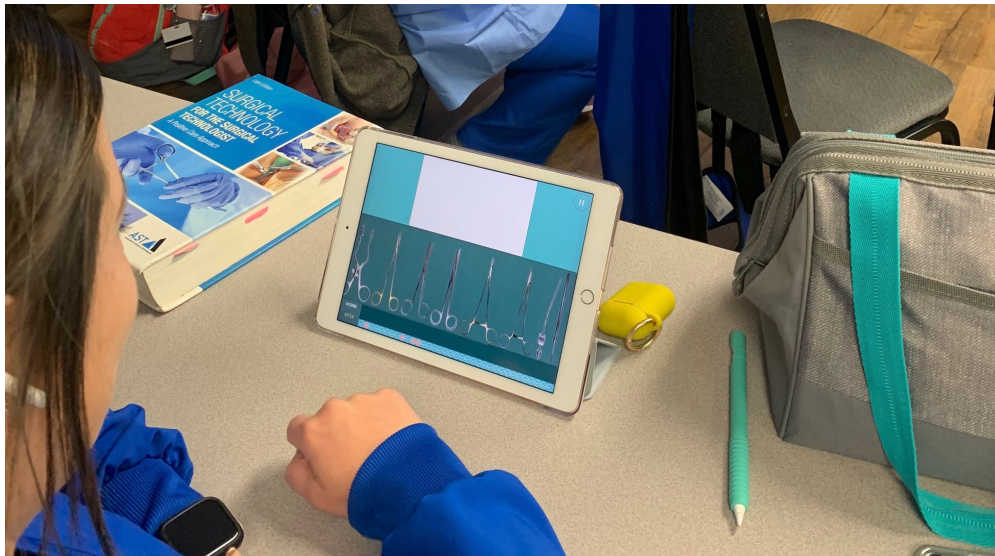


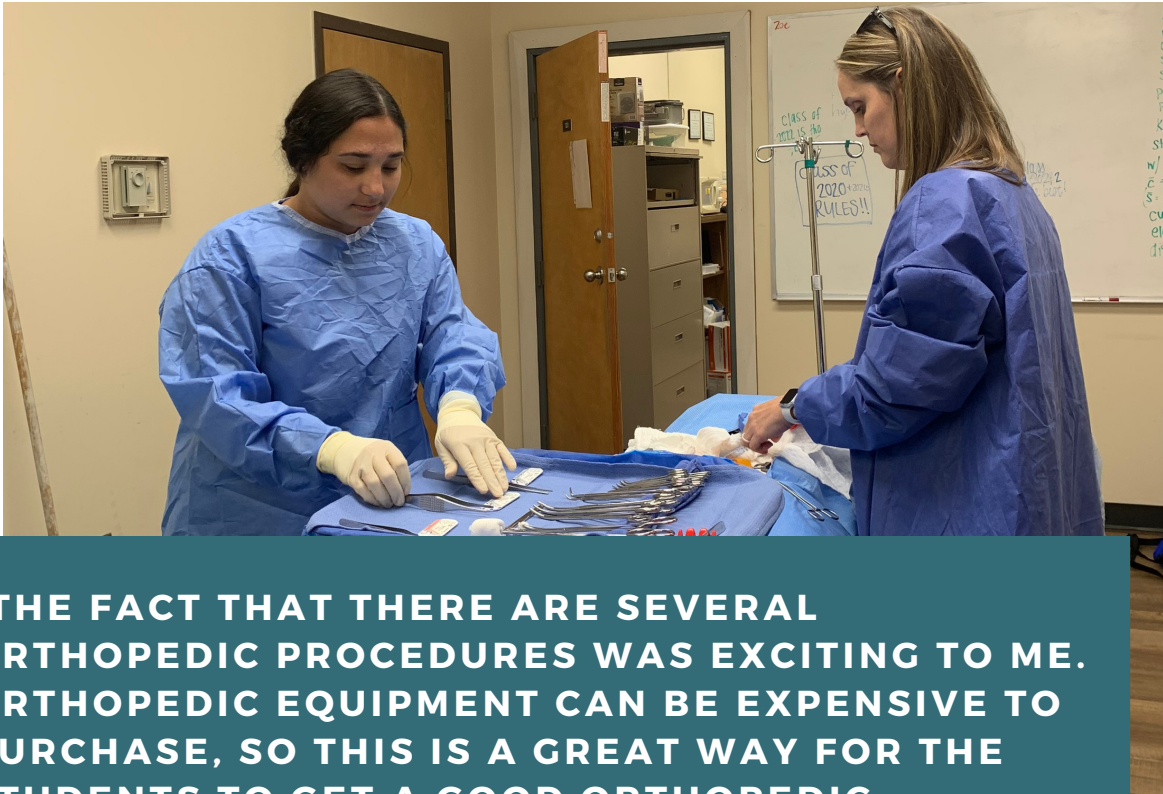
# CUSTOMER GUIDELINES & REQUIREMENTS

In the spring of 2020, Fletcher Technical Community College was searching for a way to accommodate the remote learning of their students, given the uncertainty of the unfolding Coronavirus pandemic. Lindsay Henderson, BAS, CST, Surgical Technology Department Head/Instructor was intrigued by the PeriopSim desktop application, and its ability to give their clinical students as much of a hands-on experience as possible without being able to be in the clinical facilities.

Lindsay, along with her fellow instructor, Terri Ferreira, wanted to ensure that her students would still be able to receive a high-quality education without compromising the existing structure of the program at Fletcher Technical Community College.

Key areas of study include communication, anticipating the surgeons' needs, understanding procedures and development of manual dexterity.





**“THE FACT THAT THERE ARE SEVERAL ORTHOPEDIC PROCEDURES WAS EXCITING TO ME. ORTHOPEDIC EQUIPMENT CAN BE EXPENSIVE TO PURCHASE, SO THIS IS A GREAT WAY FOR THE STUDENTS TO GET A GOOD ORTHOPEDIC FOUNDATION THAT EXTENDS BEYOND VIDEOS AND THE LIMITED EQUIPMENT MANY SCHOOLS HAVE.”**

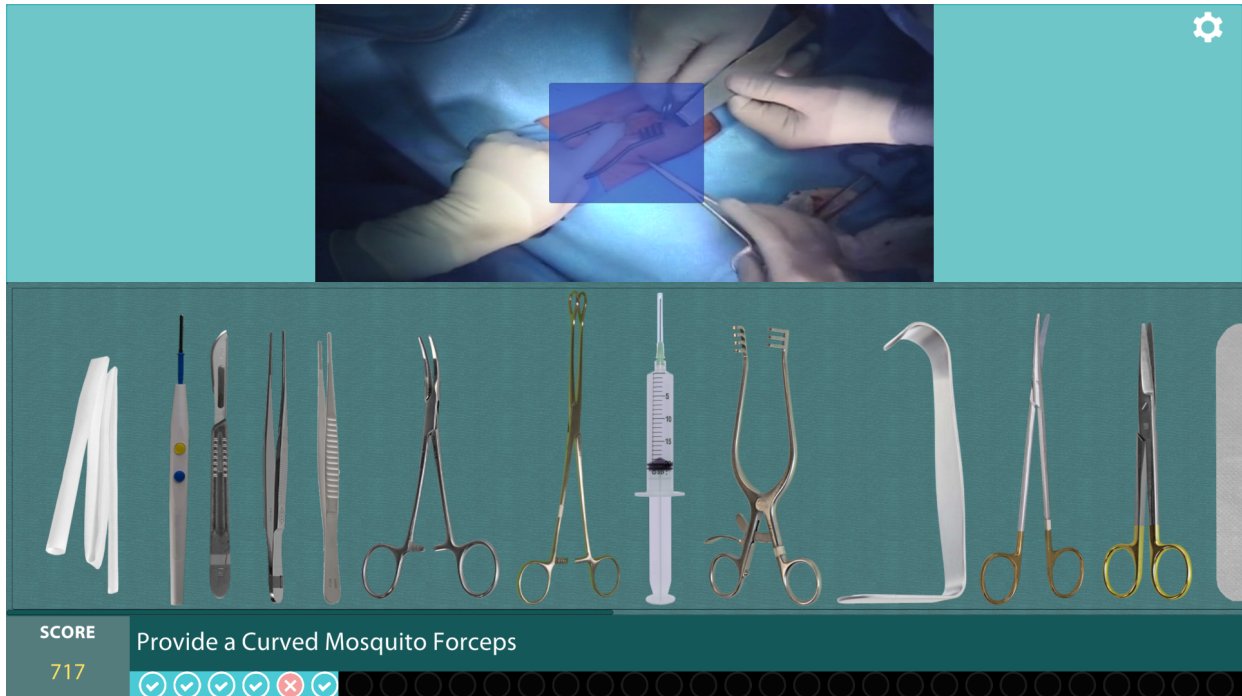
**-LINDSAY HENDERSON  
BAS, CST, SURGICAL TECHNOLOGY  
DEPARTMENT HEAD/INSTRUCTOR**

Customer Success Manager, Jumana Mascati set up a follow-up call with Lindsay to gather feedback after the deployment of the desktop application into the Surgical Technology Program at Fletcher Technical Community College.

“We absolutely love PeriopSim! It also came in handy when we were unable to meet face-to-face in lab class during our Procedures courses. The interactive simulations allowed the students to have the best possible learning experience under the circumstances. We, as instructors, were able to track the amount of time students spent on the simulations, as well as their scores for the exercises. It gave us all (students and instructors) a foundation of what needed work when we were able to return to classes.”



# THE SOLUTION




PeriopSim is a surgical training and assessment platform that combines virtual simulations, neuro education and game based learning to save time. When experience is in short supply or too expensive/challenging to attain, simulation training is an ideal option. Pilots have been using simulation for decades and it is a gold standard for certifying and re-certifying competence to fly some of the most complex planes in the world. Healthcare education is catching up.


A National Simulation Study (<https://www.ncsbn.org/685.htm>) was conducted and the study

provides substantial evidence that up to 50% simulation can be effectively substituted for traditional clinical experience in all prelicensure core nursing courses under conditions comparable to those described in the study. It is a study that we use as a foundation in describing how PeriopSim can benefit educators in terms of flexibility in education and timesaving. Additionally, we have been the subject of a number of research studies that you can find more information about here: <https://www.periopsim.com/research/>

# THE SOLUTION



PeriopSim takes live video footage of a one hour long procedure and creates a Virtual Simulation that is 10 minutes long giving a 6x in time savings for that experience. 1 Experience Hour = 10 minutes in simulation with PeriopSim. Prior to the COVID-19 pandemic, PeriopSim has been used by Educators in Departments of Surgical Services in hospitals across Canada and the US for the last few years. Educators use PeriopSim to improve confidence and competence of perioperative Registered Nurses (RNs) and Surgical Technologists (STs) during their orientation curriculum. PeriopSim can be combined with other learning tools such as AORN's Periop 101, videos, live simulations and preceptor job shadowing. PeriopSim is used to bridge the gap between classroom and the OR.



There are over 35 Virtual Simulation Experiences on the platform and over 15,000 of these experiences have been completed by learners at our customer sites. To build these Experiences, we partnered with our customers at leading healthcare facilities to record the procedures, capture instrumentation and materials. We combine these assets with evidence based guidelines from leading sources including AORN and ORNAC. The Educator and Surgeon working with us confirm the quality of the module prior to release. We currently have a large pipeline of modules that are at different stages of development and we provide releases on a regular basis.

When COVID-19 impacted healthcare education more abruptly in mid-March 2020, we had some conversations with leaders in the Surgical Technology area as well as with our customers across the US and Canada in hospitals and we knew we had to act quickly and do something.

# THE SOLUTION

**THERE ARE OVER 35 VIRTUAL SIMULATION EXPERIENCES ON THE PLATFORM AND OVER 15,000 OF THESE EXPERIENCES HAVE BEEN COMPLETED BY LEARNERS AT OUR CUSTOMER SITES.**

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PeriopSim was designed to be used on iPad and in Virtual Reality with HPs WMR Reverb Headset or HTC VIVE. This would not work for Surgical Technology Programs that now had to move to 100% online learning. Students did not have access to iPads or Virtual Reality at home. We shifted our entire focus to launching PeriopSim on PC/Mac/Chromebook and Android/Windows Tablet as quickly as possible.

At the same time, we had to come up with a low-cost pricing package that would be easy to understand and make sense for schools in the short term as well as in the long term. We created our Educational Institution Package with limited pricing for COVID-19 and went live with communications. This allowed for the early leaders to share the information and get the innovative schools onboard and making simulation for procedures accessible within weeks



# THE SOLUTION



A key aspect of PeriopSim that didn't require any adjustment is the learning data system that does assessments on learners.

C or a D means they are learning and focusing on accuracy rather than speed.

A and B means that they are focusing on speed and delivery because they are already accurate.

Incomplete means that they haven't done more than 3 simulations that are required to get an assessment.

The effort would take to do these detailed assessments is near impossible without technology like PeriopSim.

# THE OUTCOME

Lindsay and Terri have successfully integrated PeriopSim in the Surgical Technology curriculum at Fletcher Technical Community College. The application has been used as “lab time” with a requirement of 30 minutes each week to work through the available modules. The modules are matched up to specific topics such as general surgery, and the cohort has small competitions amongst themselves to increase their scores. Lindsay has renewed the desktop application for another year of use at Fletcher, and is excited to introduce it to more students.

The team at Fletcher was so impressed with the application and the students’ response, that they ordered the Travelling VR kit to try in class and get feedback from their students. The VR kit was incredibly popular and immediately, the College began looking into funding options to expand their toolset for their students.

Realizing the full potential of the PeriopSim technology suite, the team at Fletcher Technical Community College was able to secure funding and is moving forward to upgrade their system and include the VR technology. Now with both the desktop application and the upcoming in-class VR capabilities, Lindsay is excited to see how they can continue to expand their program offering, and attract more students to the exciting field of surgical technology.

# THE FACULTY



Danielle Vauclin  
Dean of Nursing & Allied  
Health



Lindsay Henderson  
BAS, CST, Surgical Technology  
Department Head/Instructor



Terri Ferreira  
Surgical Technology Clinical  
Coordinator/ Instructor

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**CONQUER EXPERIENCE**

**GET IN TOUCH**

E-MAIL US AT [INFO@PERIOPSIM.COM](mailto:INFO@PERIOPSIM.COM)

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**JULY 2021**