



2016 Annual Report



**VETERINARY MEDICINE
& BIOMEDICAL SCIENCES**
TEXAS A&M UNIVERSITY



The CENTER for
EDUCATIONAL TECHNOLOGIES

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We strive to blend the principles of student-centered learning with innovative technologies to create high-impact learning experiences.



OVERVIEW

January 2016 marked the fifth anniversary for the Center for Educational Technologies (CET) and what an amazing five year journey it has been. Dr. Jodi Korich, clinical associate professor in the department of Veterinary Integrative Biosciences and director of the Center, relocated to Texas A&M in 2010 to pursue her passion for educational technologies. Soon after her arrival, Korich founded the CET and began assembling a world-class team of veterinary educational technologists.

Today, the CET team includes 3 instructional assistant professors with advanced degrees in education who provide instructional design and several educational technologists who develop multimedia resources.

The award-winning group has produced nearly 200 contact hours of web-based resources and technology-enhanced classroom activities that are used by students at Texas A&M and around the world.

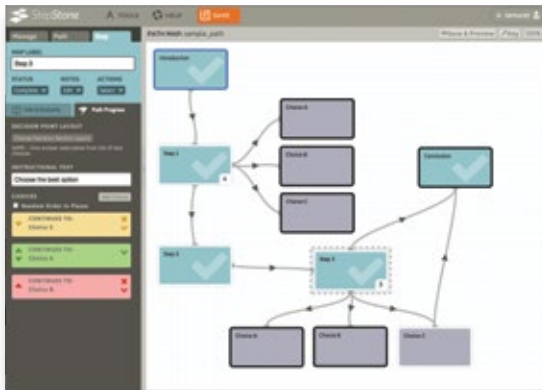
PROGRAM EVOLUTION

Recently, the CET expanded its services to include software application development. With the launch of StepStone, faculty can now rapidly create their own mobile device compatible e-learning materials.

Pilot testers at the veterinary college and across campus (e.g., Health Science Center and College of Engineering) reported that StepStone was user-friendly and were very satisfied with the quality of materials they were able to produce with this new software system.

This is something I can use in multiple settings, across multiple years of the curriculum. I have plans to create more case modules and learning opportunities to add more self-directed student learning to my courses.

DR. ALISON DIESEL
CLINICAL ASSISTANT
PROFESSOR



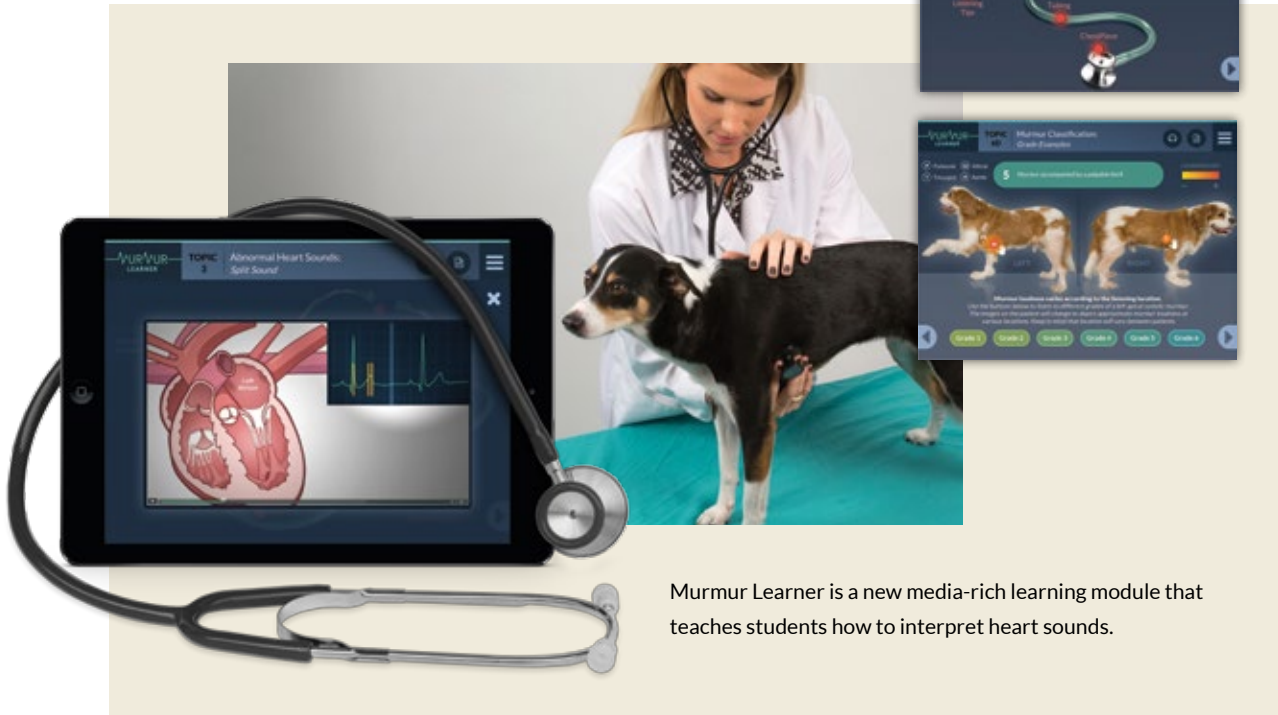
StepStone is a new courseware development tool created by the CET that is now available for faculty use.

Shown below are some of more than 50 case studies developed by the CET in collaboration with faculty.



VITAL PARTNERSHIPS

Collaborations with faculty experts produced a variety of valuable materials that are now helping students acquire fundamental skills and allowing teachers to make the best use of classroom time.



The Core Surgical Skills module is designed to optimize student learning during surgery laboratories by laying a solid foundation prior to lab



SUSTAINABILITY & GROWTH

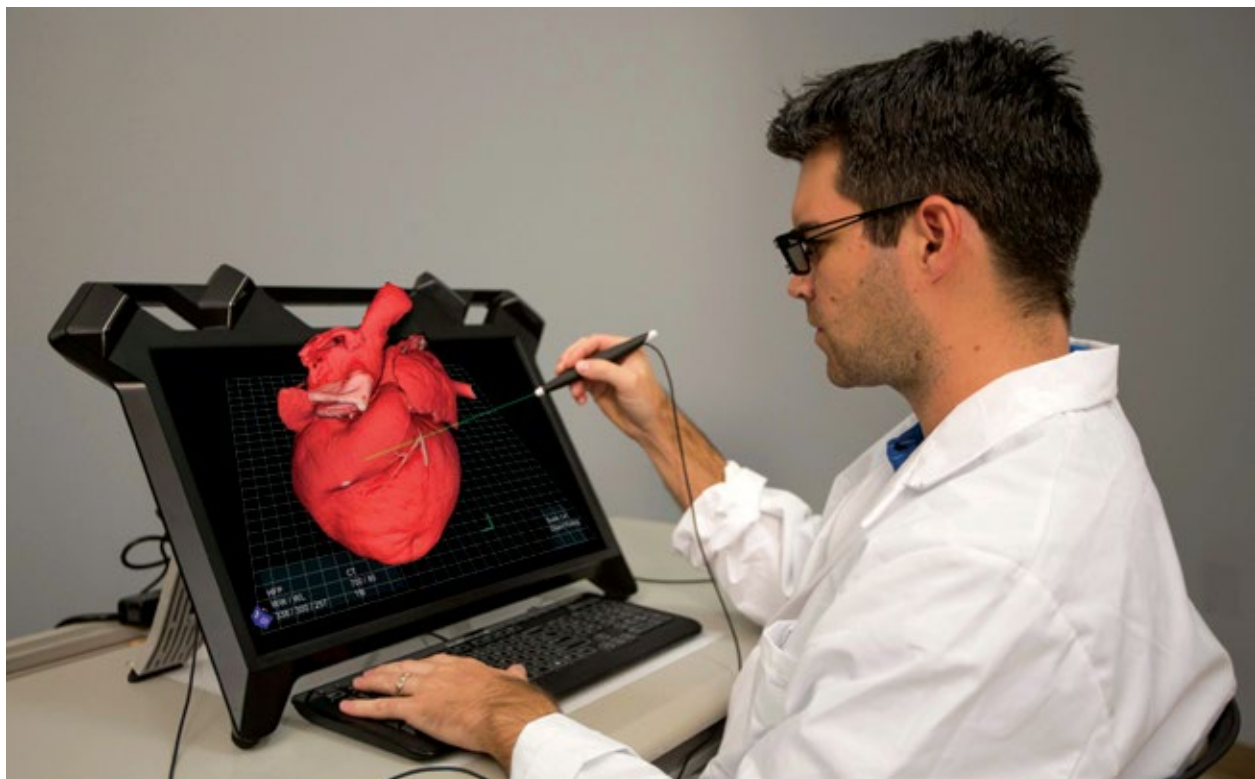
Producing high-quality resources requires substantial funding, and a key factor in the CET's success has been its ability to produce program income. Since 2010, the CET has generated more than \$3.6 million in extra-mural grants, contracts, and product sales. These entrepreneurial activities are critical to the future of the program, as they offset the considerable cost of maintaining such an ambitious program.

Revenue derived from products sales is used to fund the research and development of new educational technologies and instructional methods, such as the CET-led initiative to utilize 3D and virtual reality technologies in teaching.

Working with surgeons in the CVM's Small Animal Hospital, the CET created a 360-degree video of a spay procedure. When wearing a VR headset, the viewer is able to see the entire surgical suite by a simple movement of the head, as if present in the room.



CET team member Vince Chihak demonstrates Z-Space, a new virtual reality platform that allows students to manipulate 3D learning objects, such as this model of a congenital heart defect developed by the CET in collaboration with Dr. Ashley Saunders, Associate Professor of Cardiology.

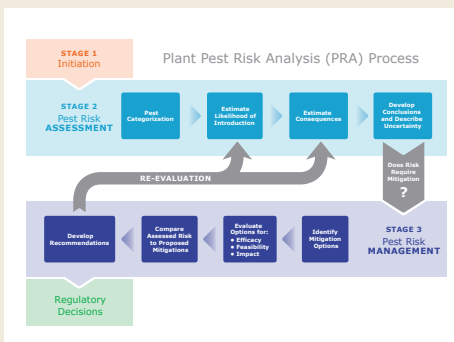


SOLUTIONS WITH IMPACT

Resources and products created by the CET leverage proven pedagogical and new technological approaches to solve educational challenges. Both at home and abroad, the CET is working hard to transform education. The program maintains collaborations with 11 veterinary colleges across the United States, Canada and Europe, and has even partnered with the United States Department of Agriculture to develop an agricultural training program for government officials in developing countries.

Government officials who are benefiting from the training have reported that they are already applying their increased knowledge of trade rules on-the-job.

KELLY SKUPNIK
INTERNATIONAL TRADE
SPECIALIST, USDA



At workshops, participants apply concepts they've learned through web-based modules to real-world activities designed to advance their country's agricultural trading objectives.



CURRICULUM ENHANCEMENT

The CET also played a central role in the review of the college's veterinary curriculum, culminating in an Action Report that outlines recommendations for the college's curriculum. Working under Dr. Kenita Rogers, Executive Associate Dean, the team has now turned their attention to providing faculty support. The CET team will collaborate with teaching faculty across all four years of the curriculum to design educational activities that will address the gaps in students' knowledge, skills, and attributes identified during the curriculum review.

With funding from the Office of the Dean, the CET recently launched a new internal grant program to support the curriculum renewal effort. Faculty teaching in the DVM, BIMS, and graduate courses submitted a total of 25 project proposals, with successful applicants receiving an opportunity to collaborate with the CET to develop their project ideas. Solving today's veterinary educational challenges will require a multifaceted approach, and the CET is excited to be contributing to this ongoing process.



CET team members Drs. Jodi Korich and Lisa Keefe were part of the Curriculum Review Team who conducted a comprehensive review of the DVM teaching program to identify opportunities to strengthen the curriculum.





The Center for Educational Technologies
Located at the College of Veterinary Medicine
& Biomedical Sciences at Texas A&M University
1-979-458-8450 WWW.TAMUCET.ORG