

**Division of Academic Affairs  
Technology Fee – Systemic Project Proposal  
2016**

*Proposal Deadline: Friday, January 22, 2016 @ 5:00 pm*

***Project Proposal Type***

---

***Systemic Project***

*Projects proposed by operational units of the university (e.g., colleges, academic departments, Library, etc.) for instructional technology enhancements of unit-wide or university-wide scope.*

*All Systemic Project proposals must be acknowledged (signed) by the operational unit head (e.g. Dean, Chair, Director, etc.).*

***Project Title***

---

*Synthetic Cadaver Lab*

***Total Amount of Funding Requested***

---

*\$189,300.00*

***Primary Project Coordinator***

---

*Eric Greska, PhD, CSCS*

***Unit Head Acknowledgment***

---

Unit Head Signature: *Imagyn M Keel*

Date: *1-22-16*

**Division of Academic Affairs**  
**Systemic Project Proposal Template**  
**2016**

**1. Description of initiative/investment to enhance instructional technology.**

The newly formed College of Health is home to multi-faceted programs that focus on practical and scientific applications of human health. Our programs include Nursing, Psychology, Health Promotion, Public Health, Clinical Laboratory Sciences, Health Science, Fitness and Conditioning, Physical Therapy, and Exercise Science. For the Spring 2016 semester, these programs enrolled a combined 2,938 undergraduate students, accounting for a substantial percentage of the entire University student population in nine programs. An overarching theme shared amongst these programs is the involvement with the human body and the necessity to understand human anatomy and physiology. It is a requirement for these students to take anatomy and physiology courses at the lower-level, yet those courses are generalized and do not directly involve the human body. The acquisition of synthetic cadavers and the development of a cadaver lab is essential to properly educate our students relative to the human body, and provide them with invaluable hands-on experience.

The SynDaver Anatomy Model is an education-grade synthetic human cadaver complete with all bones, joints, muscles, organs and tendons in normal human anatomy, and is made from materials that mimic the mechanical, thermal, and physicochemical properties of live tissue. Major nervous system and vascular components are also included. This synthetic cadaver is an ideal alternative to human cadavers, allowing our students to become familiar with the look and feel of a live human body without specialized facilities, risk of exposure to biohazards or compromising a live patient.

The acquisition of three SynDaver cadavers will enhance the student-centered high-impact learning experiences that our students receive; building the knowledge, skills, and abilities that are necessary for their success within their respective fields. Benefits of cadavers include the association with 3-dimensional spatial orientation that simply cannot be digested by most students using computers and written documents. It is necessary for our students to acquire valuable hands-on experience in working with the human body, and understanding its intricacies layer by layer. The vast majority of our graduates will someday work directly with the health, well-being and life of humans and as such, require experience with the unique nature of human anatomical and physiological models. The use of the SynDaver cadavers will provide instructional enhancements for a variety of courses for each program within the College of Health. Some examples include:

- Functional Kinesiology (ATR 3132)
- Health Assessment and Promotion (NUR 3067)
- Communicable and Degenerative Diseases (HSC 4551)
- Pathophysiology (HSC 3555)

- Exercise Physiology (APK 3110)
- Brain, Behavior, and Experience (PSB 4002)

Laboratory space has already been identified within the Exercise Science and Community Health department to initially house three synthetic cadavers (Building 72, room 234). To support the acquisition of the synthetic cadavers, Dean Kiehl has pledged funds from the College of Health for lab start-up requirements and service warranties. Service warranties will allow for the refurbishment of the cadavers on a yearly basis to ensure that the quality of the specimens is maintained for a consistent student experience. Lastly, the acquisition of the SynDaver cadavers will move the College of Health closer to developing a Physician's Assistant program on the UWF campus.

## **2. Description of how initiative has a college/unit-wide or university-wide scope.**

The scope of the project is focused on students within the College of Health, although students enrolled in other health science and biomedical fields (i.e. pre-professional biology, pre-professional chemistry, mechanical engineering) have the opportunity to benefit from the acquisition of the SynDaver cadavers. The equipment will initially be housed in the Athletic Training Clinical Laboratory (72/234), allowing multiple disciplines to gain access.

## **3. Description of project alignment with UWF Strategic Plan.**

The acquisition of SynDaver cadavers aligns to the current UWF Strategic Plan through multiple strategic directions, specifically priorities 1.1, 1.3, 2.1, and 4.1.

- *Priority 1.1: Foster student learning and development to include the knowledge, skills, and dispositions that optimize students' prospects for personal and professional success*
  - The SynDaver cadavers will allow for objectively driven assessments of the students abilities, as well as the development of the students' knowledge and skills in patient-centered care.
- *Priority 1.3: Improve student persistence and timely progression to degree attainment*
  - Having the SynDaver cadavers will improve student retention by demonstrating UWF's commitment to providing students with robust high-impact practical experiences that enhance student learning, setting our College of Health programs apart from other peer institution programs.
- *Priority 2.1: Respond to the changing needs of the region, state, and nation by investing strategically to support innovative instruction and high-quality, relevant, and distinctive academic and research programs*
  - The Board of Governors has already identified the shortcoming of health care workers within the Florida Panhandle. The implementation of these cadavers into College of Health courses allows for theoretical principals to be converted into practical knowledge, supplying our students with hands-

on skill development, and the ability to pursue research relative to the human body that affect our region and the nation.

- *Priority 4.1: Support and sustain the high-quality services and infrastructure needed to achieve identified UWF priorities*
  - Adding the SynDaver cadavers will facilitate optimal learning by providing students with tangible professional clinical equipment. Students will be able to translate their course experiences to real-world application, demonstrating the high quality of instruction obtained at UWF.

#### **4. Description of benefits provided.**

This project will benefit College of Health students and faculty by providing:

- Access to technology found in flagship Universities, medical schools, and research laboratories that allows evidence-based practices to be applied and defined.
- High-impact learning experiences that translate into demonstrable clinical and research knowledge, skills, and abilities.

#### **5. Description of how success/impact will be measured.**

- Assessment of course usage through syllabi analysis
- Assessment of student knowledge through course assignments and examinations
- Implementing assessment rubrics for the application of evidence-based practices in clinical skills
- Tracking of UWF students accepted into Medical, Dental, Optometry, Pharmacy, and Physician Assistant programs.

#### **6. Detailed description of resources required including hardware and software requirements and personnel costs (faculty compensation is not an allowed cost).**

A summary of the hardware expenses is provided here. Please see the attached quote for complete details. There are no additional software or personnel costs.

<b>Item</b>	<b>Technology Fee Funds</b>
SynDaver Synthetic Human Anatomy Model (x3)	\$180,000
Onsite Install and Training (x3)	\$7,500
Shipping	\$1,800
<b>Project Total</b>	<b>\$189,300</b>

Each SynDaver Synthetic Human Anatomy Model includes a tank table and storage chemicals.

**7. Proposed timeline.**

The SynDaver cadavers will be ordered as soon as funds are available, with product delivery estimated at six (6) weeks. Professional installation and training (included in the cost) will be scheduled to coincide with the delivery. Courses will begin to implement the use of the system in the semester that immediately follows the installation. Assessments will occur each semester relative to the integration of the SynDaver cadavers into coursework.

**8. Plan for sustainability beyond conclusion of funding from technology fee, if applicable.**

As previously mentioned, funds will be allocated from the College of Health to cover warranty costs. Disposables (gloves, masks, etc.) utilized by students within the class setting will be acquired through material and supplies fees imposed in the course.

**9. Resource matching commitments from other organizations/sources (identify organization and amounts), if applicable.**

Not Applicable

**10. Individual responsible for reporting and accountability, along with contact information.**

Eric Greska, PhD, CSCS  
Building 72/216  
Office: 474-2570  
Cell: 525-2435  
egreska@uwf.edu

# SynDaver Labs

8506 Benjamin Road Suite C, Tampa, Florida 33634 • Main: 813-600-5530 • Fax: 813-600-3235

**Doc:** UWF-Q-111915-02  
**Date:** November 19, 2015  
**Contract:** TBD  
**Customer:** Eric Greska  
**Email:** egreska@uwf.edu  
**Phone:** 850-474-2570

**Shipping Info**  
 Attn: Eric Creska  
 University of West Florida  
 1000 University Pkwy  
 Pensacola, FL 32514  
 USA  
**Quote Expiration Date:**  
**2/9/2016**

**SynDaver Labs Point of Contact**  
 Attn: Conar Mahon  
 Sales Manager  
 c.mahon@syndaver.com  
 813-600-5530 (Office)  
 813-373-1722 (Cell)

Description	Qty	Unit Price	Total Price
[Z-SSH-F-0010] SynDaver Synthetic Human Anatomy, Female	3	\$60,000.00	\$180,000.00
Included Components			
Tank Table			
Storage Chemicals			
[S-INS-A-0005] Onsite Install and Training	3	\$2,500.00	\$7,500.00
<b>OPTIONAL</b> [S-WAR-A-0001] Service Warranty			
\$7500.00 per body			
One refurbishment per year			
Shipping is \$600 per SSH Unit			
Shipping Insurance available upon request			
		<b>Subtotal</b>	\$187,500.00
		<b>Shipping</b>	\$1,800.00
		<b>Sales Tax</b>	TBD
		<b>Grand Total</b>	\$189,300.00

**Methods of Payment:** Our preferred method of payment is ACH. However we also accept payment by credit card (Visa, MasterCard, and American Express), wire transfer (\$20.00 processing fee), and check. We accept paper checks transmitted by FedEx, UPS, and DHL only – not via USPS.

**Payment Terms:** All of the prices listed on our website are 'cash up front' with payment due at the time the order is placed. In some cases we will offer NET 30 terms to established clients but there may be an upcharge for this privilege. NET 60, NET 90, and NET 120 terms may be available to select clients but will involve a 20%, 35%, and 50% premium over quoted / listed prices.

# 18 Systemic Eric Greska

## ITS Review Comments

### **GENERAL COMMENTS:**

None.

### **COMPLIANCE WITH STANDARDS:**

No comments.

### **INFRASTRUCTURE ISSUES:**

No comments.

### **PRICING/COST ISSUES:**

No comments.

### **OTHER SUPPORT ISSUES:**

No comments.

### **SUGGESTIONS TO PROPOSER:**

No comments.

For questions regarding ITS comments, please contact:

Melanie Haveard, Executive Director and CTO

ext. 2540

[mhaveard@uwf.edu](mailto:mhaveard@uwf.edu)