SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

Excellence in Undergraduate Education (EUE) Proposal

Project ID# (*leave blank*)

25-07

Project Title

Instructional material for Human Anatomy and Physiology I and II

Project Director	ID Number	Telephone	Email
Bethany L. Kassebaum	800303033	6186503902	bkasseb@siue.edu

Department	Campus Box	School College
Biological Sciences	1651	College of Arts and Sciences

Course or Program

BIO 240a, BIO240b, BIO440

Project Co-Director	ID	Department	Email
Jessica Wright	800115738	Biological Sciences	jchoudh@siue.edu
James Enyart	800106684	Biological Sciences	jenyart@siue.edu
Tricia Altmansberger	800767845	Biological Sciences	traltma@siue.edu

Student Impact:	800

Priority Rating (If Submitting Multiple Proposals):	

Project Budget

Salary	Wages	Travel	Equip.	Comm	CServ	Auto	Tele	Awards	Total
			9901						

Cost-Sharing

Salary	Wages	Travel	Equip.	Comm	CServ	Auto	Tele	Awards	Total
			1980						

Prior EUE Support

Project Director	Project Number	Award Amount	Project Dates

Applicable 2024-2025 Priorities (*check all your proposal fits, if any*):

- ☐ Course redesign project that uses inclusive, student-centered pedagogies to address equity gaps, improve student learning outcomes, & enhance retention
- ☑ Project involves courses that have high number of sections, a high ratio of D/F/W grades, or key required courses with high enrollments and opportunities to improve equitable student success

Project summary

Human Anatomy and Physiology (BIOL 240a and 240b), and Functional Human Anatomy (BIOL 440) are courses with the primary goal of annually teaching 800 students the structure and function of the human body. The students enrolled in these courses participate in several challenging programs across campus including nursing, pre-pharmacy, pre-medical, pre-dental, biological sciences, exercise science, and health education. The complexity of the course content has traditionally resulted in higher D/F/W rates. The proposal is for the purchase of new state-of-the-art models that would allow our undergraduate students more interactive learning and improved understanding of the course content.

Narrative File

Anatomy and physiology instruction forms the cornerstone of medical education, providing students with a fundamental understanding of the structure and function of the human body. However, traditional lecture methods and often fall short in effectively conveying complex anatomical concepts. As we strive to enhance the quality of education we provide to our students, we recognize the significance of updating our laboratory resources to ensure an enriching learning experience is available to every student that works through our courses. Utilizing state-of-the-art anatomical models can significantly enhance student engagement, comprehension, and retention of critical information.

Our current inventory of anatomical models is, unfortunately, missing a few key pieces that could really improve the way we teach, and the way our students learn and engage with the content. There are advanced models now available that can help us meet the demands of modern teaching practices. With advancements in medical technology and pedagogy, it is imperative that we equip our classrooms with innovative tools that align with contemporary educational standards. By investing in several new anatomy and physiology models, we aim to transform the learning experience for our students and empower them with the knowledge and skills necessary for success in their academic and professional endeavors. These models incorporate interactive features, such as removable parts and anatomical landmarks, enabling students to explore and comprehend anatomical structures with unprecedented clarity and depth.

The proposed funding will be utilized to purchase the following anatomical models:

- **3-D Printed Superficial Dissection of the Upper Limb Model:** This is an exciting opportunity to add something to our model collection that more closely resembles the arm of a human cadaver. Students will greatly benefit from this innovative experience because we do not have human cadavers on campus. This model realistically displays the skin partially removed, connective tissues, blood vessels, muscles, tendons, etc. With this model, we will be able to change how we approach the instruction of several biological systems within the lab environment. We are requesting 2 of these models.
- **Eisco® Human Lymph Node Model:** Currently**,** we do not have any lymph node models in our teaching labs and having something other than 2D drawings in the student lab manual could greatly improve student understanding of the structure as well as the impacts the lymph nodes have on the entire lymphatic system. Our students have

repeatedly expressed their difficulty and frustration in comprehending this underappreciated body system. We are requesting 2 of these models.

- **Altay® Human Head Section with Cranial Nerves**: While we have models of the brain, many of our students struggle to connect the anatomy of the brain and cranial nerves to the physiological changes seen throughout the body. This model not only displays the cranial nerves but allows students to follow those nerves to the muscles or structures they innervate with relation to the skull/face/neck rather than just how they innervate the brain. The model has excellent detail and features a removeable eye for improved viewing of the optic nerve. We are requesting 2 of these models.

Budget and Budget Justification:

Item	Justification	Total Cost Requested
3-D Printed Superficial Dissection of the Upper Limb Model	This model realistically displays the skin partially removed, connective tissues, blood vessels, muscles, tendons, etc. List price: $4,026.45 Quantity requested: 2	$8052.90 + $219.89 in shipping
Human Lymph Node Model	It would benefit student learning to be able to see the structure of a lymph node in 3D. List Price: $298.55 Quantity requested: 2	$597.10
Human Head Section with Cranial Nerves	This model displays the cranial nerves and the structures in the head and neck they innervate. List Price: $515.80 Quantity requested: 2	$1031.60
		Total requested: $9901.49

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

Date: **02/29/2024**

To: **Faculty Development Council**

From: **Jason Williams, Chair, Department of Biological Sciences**

Subject: **Chair support letter for EUE proposal submitted by Bethany Kassebaum**

This memo is in support of Bethany Kassebaum's EUE proposal to purchase unique and enhanced models for use in Biology 240a, 240b, and 440 (two semesters of Human Anatomy and Physiology and Functional Human Anatomy). I strongly support her proposal because it will positively impact a large number of students in courses with traditionally high D/F/W rates.

Ms. Kassebaum's EUE proposal is specifically requesting funds to purchase new and unique models that more closely resemble living tissue, organs, and organ systems. More realistic models will aide in student conceptualization of the content to aide in understanding and retention (Tripodi *et al.*). These courses, in particular BIOL 240a and 240b, serve a large number of students from many programs including nursing, pre-health professionals from biology (pharmacy, dental, medical, etc.), and exercise science among others. In addition, the content of these courses is challenging, resulting in traditionally high D/F/W rates that range between 30-40%. These new models will be an excellent addition to the department's overall effort to enhance student understanding, reduce D/F/W rates, and increase overall retention.

The department fully supports the purchase of the requested models as we tackle the high D/F/W rates in these courses. In addition, the department does have foundational account funds to cover the 20% price match, or $1,980, of the expected total costs of $9,901.

Literature Cited:

Tripodi N, Kelly K, Husaric M, Wospil R, Fleischmann M, Johnston S, et al. The impact of three-dimensional printed anatomical models on first-year student engagement in a block mode delivery. Anat Sci Educ 2020;13:769–77.

College of Arts and Sciences
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a Office of the Dean, Suite 3409, Box 1608, Edwardsville, IL 62026-1608

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

Date: February 29, 2024

From: Kevin Leonard, Dean, College of Arts and Sciences 

Subject: EUE Dean Memo of Support

The College of Arts and Sciences supports the application of Bethany Kassebaum for an EUE grant to purchase human anatomical models to be used across multiple Biological Sciences courses: Biology 240a, 240b, and 440. The purchase of these models would fill the gaps in the department's laboratory resources and would enhance student learning of anatomy by providing tangible tools to support integration and application of knowledge in courses that have had historically high DFW rates. Additionally, these courses serve a variety of programs that require hands-on learning to prepare students for careers in the medical fields in addition to biology (nursing, pharmacy, dental). The proposal is aligned with student success initiatives on campus and EUE priorities.

The budget goes directly to purchasing the needed anatomical models for classroom use. The Department of Biological Sciences will provide the 20% cost share for equipment. The proposal provides benefits beyond the project year, as the materials purchased would continue to be used in future years across a wide range of courses that serve students from across the university.

College of Arts and Sciences
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Bethany L. Kassebaum

908 Stone Briar Drive, O'Fallon, IL 62269 Phone: (618) 558-6934 Email: bethkass1@gmail.com

Education

- **Master of Arts in Teaching –** Southern Illinois University Edwardsville, Edwardsville, IL
  - May 2010
  - Endorsements include middle school and high school biology.
  - Certificate 2434696 - 09
- **Master of Science in Biology –** Southern Illinois University Edwardsville, Edwardsville, IL
  - May 2004
  - Masters Research – Thermal stress and conservation of darters in two thermally contrasting streams of a small midwestern drainage.
- **Bachelor of Science in Biology –**Southern Illinois University Edwardsville, Edwardsville, IL
  - December 2001
  - Undergraduate Research – Seed viability of *Schoenoplectus hallii.*

Employment and Experience

- **Instructor of Biology. January 2017 – Current, Southern Illinois University Edwardsville.**
  - Responsibilities – Organization and presentation of courses with laboratory component and evaluation of students' progress.
  - Courses Taught
    - Biology 140 – Human Biology
    - Biology 240a – Human Anatomy & Physiology I
    - Biology 240b – Human Anatomy & Physiology II
- **Field Supervisor. May 2018 – Current, Southern Illinois University Edwardsville.**
  - Responsibilities – Organization of undergraduate students, data collection, live-trapping of small mammals, and experimentation under the direction of Dr. D. Lee.
- **Adjunct Instructor of Biology. August 2010 – December 2016, Southern Illinois University Edwardsville.**
  - Responsibilities – Organization and presentation of courses and evaluation of students' progress.
  - Courses Taught
    - Biology 111 – Contemporary Biology
    - Biology 140 – Human Biology
- **Adjunct Instructor of Biology. August 2007 – December 2016, Southwestern Illinois College.**
  - Responsibilities – Organization and presentation of courses with laboratory component and evaluation of students' progress.
  - Courses Taught
    - Biology 100 – General Biology: Ecology, Evolution, & Genetics
    - Biology 101 – Principles of Biology I
    - Biology 102 – Principles of Biology II
    - Biology 157 – Human Anatomy & Physiology I
- **Faculty Development Committee Member August 2015 – December 2016, Southwestern Illinois College**
  - Responsibilities – Serve on a team that oversees the planning and production of all faculty development programs offered to SWIC faculty and other employees.

- **Learning Assistance Centers for Excellence (LACE) assistant for the Success Center – August 2014 – December 2016, Southwestern Illinois College.**
    - Responsibilities – Assist as a biology contact to students with difficult material.
- **Laboratory Manager in the labs of Dr. Jonathan D. Gitlin, M.D., Thomas Morgan, M.D., and Enrique Izaguire, Ph.D. May 2004 – June 2009, Washington Univ. School of Med.**
    - Responsibilities – Lab organization, genetic mapping, DNA extractions, supervising the work of undergraduate and graduate students, maintaining genetic inbred zebrafish lines (invitro fertilization) for experiments, small animal care, radiation techniques, water quality, and facility maintenance.
- **Research Assistant. April 2002-December 2003, U.S. Army Corp of Engineers and Southern Illinois University Edwardsville.**
    - Performed a complete faunal survey of Lake Wappapello. Managed the organization, collection, and identification of fish species. Other responsibilities included mammal trapping, mammal tracking, mammal identification, amphibian and reptile collection and identification. April 2002 – December 2003.

Current Committees

- **Biological Sciences Committee on Inclusivity and Equity.** Responsibilities include seeking out and engaging in antiracism work focused on facilitating systematic change, infusing curriculum with diverse modern examples and decolonize historical representations of biologists, and examining and rectifying practices that create and/or perpetuate inequities for students, staff, and faculty.

Publications

- Mendelsohn BA, **Kassebaum BL**, Gitlin JD: The zebrafish embryo as a dynamic model of anoxia tolerance. *Developmental Dynamics*. 2008 237: 1780-1788.
- Morgan TM, Xiao L, Lyons P, **Kassebaum BL**, Krumholz HM, Spertus JA: Investigation of 89 candidate gene variants for effects on all-cause mortality following acute coronary syndrome. *BMC Medical Genetics*. 2008 Jul 12; 9:66.

Awards

- SIUE Finalist for the Ed Roberts "Champions of Accessibility", Defender of Equity Award. 2019
- American Society of Ichthyologist and Herpetologists- Stoye Award finalist. 2004.

Jessica Wright
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Mascoutah, IL 62258
jchoudh@siue.edu
(618) 670-6332

Education

Master of Science in Biology, August 2015 Southern Illinois University Edwardsville
Foci: Ecology, Plant Biology, Invasive Species Biology, Botany
Thesis: Shade Tolerance and Physiological Response to Light Regime of the Invasive Species *Lonicera maackii* (Amur honeysuckle)

Bachelor of Science in Biology, cum laude December 2011 Southern Illinois University Edwardsville
Specialization: Ecology, Evolution, Environmental Biology

Biological Sciences Senior Award
Katherine Dunham Award in Anthropology
Fred Voget Award in the History and Theory of Anthropology

Experience

Publications

Schulz, K.E., Wright, J., and S. Ashbaker. (2012) Comparison of invasive shrub honeysuckle eradication tactics for amateurs: Stump treatment versus regrowth spraying of *Lonicera maackii*. *Restoration Ecology* 20(6): 788-793.

Schulz, K.E. and J. Wright. (2015) Reproduction of invasive Amur honeysuckle (*Lonicera maackii*) and the arithmetic of an extermination strategy. *Restoration Ecology* 23(6): 899-908.

Academic Mentorships

STEM Scholars Program at Southwestern Illinois College
A National Science Foundation funded program providing individualized academic mentoring to students pursuing goals in STEM careers.

Honors Thesis Program at McKendree University
A rigorous 2-semester curriculum culminating in an independent research project and scientific presentation within a discipline of interest.

Employment

Southern Illinois University Edwardsville Aug 2019 - Current
Instructor
Lab coordination for Human Anatomy & Physiology courses, supervision of teaching assistants to A&P courses. Instruction of Human A&P courses.

St Louis Community College Fall 2016 - Current

Adjunct Instructor of Biology

Instruction (in-person & hybrid) across a broad range of topics within introductory biology and areas of special interest in biology. Courses taught include Introduction to Biology and its accompanying lab, and the Biology of Human Sexuality. Topics covered include human anatomy and physiology, disease prevention, embryology, human sexual development, and social aspects of sexual identity, cell and molecular, thermodynamics, chemistry, microbiology, genetics, evolution, biodiversity, and ecology.

Lewis and Clark Community College Jun 2018 – Aug 2022

Adjunct Instructor of Biology

Online instruction and course development in the discipline of ecology. Instruction of general topics in biology for non-majors.

McKendree University Fall 2016 – May 2019

Adjunct Instructor of Biology

Face-to-face instruction of topics in biology and environmental science. Courses taught include Biology Lab for Majors (I & II), Environmental Science, and Field Botany.

Southwestern Illinois College Fall 2014 – Aug 2019

Adjunct Instructor of Biology

Face-to-face instruction in courses for biology majors and non-majors introduction to biology.
Classroom and laboratory instruction in a broad range of topics; including application of the scientific method, genetics, cell biology, evolution, biodiversity, phylogenetics, ecology, and the implications of modern technologies and problems, e.g. gene therapy, GMO organisms, and climate change.

St. Louis College of Pharmacy Aug 2015 – May 2016

Adjunct Faculty, Basic Sciences Department

Laboratory based instruction of biological topics and supervision of teaching assistants within the lab setting. Laboratory topics include cellular respiration, photosynthesis, enzyme activity, DNA replication, transcription/translation, plant anatomy and physiology, animal histology and physiology, and comparative vertebrate anatomy.

Southern Illinois University Edwardsville Jan 2012 – May 2015

Teaching Assistant, Dept. of Biological Sciences – Laboratory instruction of Biology 150 and 151 (Introduction to Biological Sciences I & II). Direct instruction of laboratory sections covering; comparative vertebrate anatomy with dissections, animal and plant histology, plant anatomy, ecology, phylogenetics, and other topics as assigned. Developed proficiency in the use of standard laboratory equipment (including microscopes, gel electrophoresis, and spectrophotometers), field equipment, Microsoft Office (Excel/PowerPoint/Word), and statistical software.

Research Assistant, Dept. of Biological Sciences – Conduct field, greenhouse, and laboratory research investigating hypotheses regarding *Lonicera maackii* biology, control of invasive plant species, forest restoration, population ecology, and community ecology.

Illinois State Archaeological Survey Sept 2011 – Sept 2012 and Oct 2010 – Apr 2011

Archaeological Field Technician – Conduct archaeological excavations of prehistoric features, map surface features of Mississippian and Late Woodland settlements, process and curate artifacts (prehistoric and historic), process flotation samples.

Applied Ecological Services, Inc. Apr 2011 – Sept 2011 and May 2010 – Oct 2010

Ecological Field Assistant on The Illinois Natural Areas Inventory Update – Assist in the assessment and evaluation of natural areas for potential inclusion in the Illinois Natural Areas Commission list of high-quality natural areas throughout the state. Evaluate natural communities by quadrat and belt transect, identify plants to species, and delineate site and community boundaries using GIS software.

Southern Illinois University Edwardsville Sept 2008 – Apr 2010

Department of Biological Sciences – Conduct field, greenhouse and laboratory research investigating topics related to invasive plant species biology, control, and removal.

National Great Rivers Research and Education Center Summer 2009, Summer 2007

Intern – (Topic 1) Invasive potential of tree species into oak-hickory bluff forest; (Topic 2) Invasive potential of bush honeysuckle in old-growth canopy gaps

Presentation of Research and Research Collaborations*

2015 *Ecological Society of America Annual Meeting*
Threshold light levels for growth of *Lonicera maackii* seedlings in forest understories.
Kurt Schulz and Jessica Wright

2015 *Thesis Defense: Master of Science, Southern Illinois University Edwardsville*
Shade Tolerance and Physiological Response to Light Regime of the Invasive Species *Lonicera maackii* (Amur honeysuckle)
Jessica Wright*

2015 *Illinois State Academy of Science Annual Meeting*
Understory light levels needed to promote the growth of invasive *Lonicera maackii* (Caprifoliaceae) seedlings.
Jessica Wright and Kurt Schulz

2014 *Natural Areas Conference Annual Meeting*
Propagule production and propagule pressure: A new perspective for managing *Lonicera maackii*.
Jessica Wright* and Kurt Schulz

2010 *Illinois State Academy of Science Annual Meeting*
Natural canopy gap formation facilitates Asiatic honeysuckle invasion of an old growth forest.
Jessica Wright* and Kurt Schulz

2010 *Illinois State Academy of Science Annual Meeting*
Efficacy of glyphosate injection to eradicate *Ailanthus altissima* (Simaroubaceae). Jessica Wright*, David Harroun, Kurt Schulz, Nathan Reese, Erin Dugan, Tim Tripp, Erica McDonald and Melissa Hall

2010 *Illinois State Academy of Science Annual Meeting*
A cautionary tale: ineffective stump treatments increase *Ailanthus altissima* (Simaroubaceae) density six-fold.
Nathan Reese, Jessica Wright, and Kurt Schulz

2009 *Ecological Society of America Annual Meeting*
Reproductive output, seed quality, and invasive potential of Asiatic honeysuckle [*Lonicera maackii* (Rupr.) Herder].
Kurt Schulz and Jessica Wright*

2009 *Ecological Society of America Annual Meeting*
Temporal and spatial pattern of Asiatic honeysuckle [*Lonicera maackii* (Rupr.) Herder] invasion in disturbed southern Illinois forests.
David Harroun, Kurt Schulz and Jessica Wright*

2009 *Illinois State Academy of Science Annual Meeting*
Reproductive potential, fruit and seed quality of *Lonicera maackii* (Caprifoliaceae) in sun and shade habitats.
Jessica Wright* and Kurt Schulz

2009 *Illinois State Academy of Science Annual Meeting*
Efficacy of Glyphosate injection to eradicate *Ailanthus altissima*.
Jessica (Choudhury) Wright*, Kurt Schulz and David Harroun

2009 *National Great Rivers Research and Education Center Intern Symposium*
Old-growth forest canopy openings as invasion opportunities for Asiatic shrub honeysuckle (*Lonicera* spp.).
Jessica (Choudhury) Wright* and Kurt Schulz

2008 *Illinois State Academy of Science Annual Meeting*
Invasion potential of introduced tree species in Oak-Hickory dominated forest at the Mississippi Sanctuary, Godfrey, Illinois. Jessica (Choudhury) Wright*, Peter Minchin and William Retzlaf

2007 *National Great Rivers Research and Education Center Intern Symposium*
Assessment of the invasion potential of introduced tree species in the bluff forests of the Illinois and Mississippi River systems.
Jessica (Choudhury) Wright*, Peter Minchin and William Retzlaf

Dr. James D. Enyart
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Belleville, IL 62223
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drjenyart@gmail.com

Education:

Logan College of Chiropractic, St. Louis, Missouri
-Doctor of Chiropractic; April 2007
-Senior Research: Effect of Cold Laser Therapy on Temporomandibular Joint Dysfunction

Southern Illinois University, Edwardsville, Illinois
-Master of Science, Kinesiology; December 2013
-Emphasis: Exercise and Sport Psychology
-Thesis/Graduation Project: Developing a Mental Skills Training Program For Exercise in the General Population
-GPA: 4.0

Logan College of Chiropractic, Chesterfield, Missouri
-Bachelor of Science, Human Biology; 2005

Southern Illinois University, Edwardsville, Illinois
-Bachelor of Science, Psychology (honors); 1997

Experience:

Southern Illinois University Edwardsville **August 2021-Present**
Position: Instructor (Full-Time) **August 2022-Present**
Lecturer (Adjunct) **August 2021-May 2022**

Courses taught: Biology 440: Functional Human Anatomy
Biology 240a: Human Anatomy & Physiology I
Biology 240b: Human Anatomy & Physiology II
Biology 205: Human Disease
Biology 140: Human Biology

Southwestern Illinois College **August 2019-August 2023**
Position: Adjunct Professor, Biology

Courses taught: Biology 158: Anatomy & Physiology II with Lab
Biology 157: Anatomy & Physiology I with Lab
Biology 105: Human Biology with Lab

Workshops and Certifications:
-Instructional Design Certificate Program. 10 hour program in Blackboard course design completed August 2019.
-CATS I Workshop. Classroom Assessment Techniques 1 workshop completed August

2019.

Lindenwood University Belleville **January 2012-May 2020**

Position: Assistant Professor of Biology; **August 2015- May 2020**
Faculty Athletics Representative

Courses taught:
Biology 486: Senior Synthesis
Biology 228: Anatomy & Physiology II with Lab
Biology 227: Anatomy & Physiology I with Lab
Biology 121: Nutrition
Exercise Science 430: Physical Activity for Specific Populations
Exercise Science 340: Nutrition for Performance
Exercise Science 240: Nutrition throughout the Lifecycle
Physical Education 330: Psychological Aspects of Physical Education (Online)

Committees:
Educational Policies Committee
Faculty Council
Higher Learning Commission Accreditation Committee

Academic Advising: **August 2015-May 2020**

Responsible for academic advising to approximately 40 undergraduate students in the Exercise Science and Biology programs per semester to enable students to meet degree requirements.

Division of Sciences Admissions Liaison: **August 2015-May 2020**

Prepared and presented Biology and Exercise Science Program presentations for prospective students and families during Admissions recruiting events. These presentations were included in weekend Open Houses, Summer Overnights, and Homecoming activities each semester, including summer sessions. These programs maintained or increased enrollment each academic year.

Biology Department Assessment Coordinator: **May 2016-May 2020**

Responsible for collecting all assessment data for the Lindenwood University Belleville Department of Biology and writing the yearly departmental assessment report.

Interim Department Chair; Biology and Chemistry **Spring 2018**

Served as the interim Department Chair while the active chair was on maternity leave for the spring semester of 2018.

Faculty Athletics Representative **August 2018-May 2020**

Responsible for ensuring that all participants in intercollegiate competition are eligible in accordance with the rules and regulations of the NAIA prior to representing the institution in any manner for 30 campus teams.

Met with the institution's chief executive officer to review NAIA and conference issues regarding academics and athletics.

Participated in any conference-wide meeting set for the purpose of rules education.

Participated in conference meetings when items on the agenda are pertinent to the faculty member's role as the faculty athletics representative.

Illinois Science Olympiad Committee **October 2016-March 2019**

Served on the Lindenwood University Belleville Planning Committee for the Illinois Science Olympiad Regional tournaments 2017, 2018, and 2019.

Proctored several events during the competition as a volunteer.

Honors and Awards:

Faculty of the Year Award **2018-2019**

Lindenwood University Belleville Athletics Department

The recipient of the Faculty Award must be a current faculty member who goes above and beyond to support the Lindenwood Athletics Department. This can be demonstrated through attendance at athletic events, individual team support through faculty mentorship, or consistent commitment to assisting student athletes in the classroom.

The recipient's hard work and dedication to the Lindenwood athletics department is demonstrated through their consistent commitment to assisting coaches, student athletes, and fellow staff members throughout the year.

Position: Adjunct Professor, Biology **2012-2015**

Courses taught: Biology 228: Anatomy & Physiology II with Lab
Biology 227: Anatomy & Physiology I with Lab
Biology 121: Nutrition

St. Louis Community College-Meramec **January 2015-May 2015**
Position: Adjunct Professor, Biology

Courses taught: Biology 111: Introductory Biology I

-Did not return due to accepting full-time position at Lindenwood University Belleville.

Enyart Chiropractic **January 2008-January 2014**
Position: Owner, Chiropractic Physician

Clinical Duties and Responsibilities:
-Patient Care**:** history, consultation, clinical exams, diagnoses, treatment plans, treatment plan implementation, rehabilitation therapy, nutritional counseling, exercise/fitness plans.

Management Duties and Responsibilities:
-Clerical: Responsible for all patient documentation, insurance billing and documentation.
-Marketing: Responsible for the design and implementation of all internal and external marketing programs for Enyart Chiropractic.
-Clinic Operations: responsible for all day to day operations at Enyart Chiropractic.

Certification/Credentialing:

-State of Illinois: Licensed Chiropractic Physician
License Number: 038010976
-National Board of Chiropractic Examiners: Part I, II, III, IV
-National Board of Chiropractic Examiners: Physiotherapy
-BLS Provider (CPR/AED); American Heart Association
-Fitness Nutrition Specialist; National Academy of Sports Medicine
-Nutrition Specialist Certification; Logan College of Chiropractic

-**Professional Affiliations**

- American College of Sports Medicine
- American Association for Anatomy
- Human Anatomy and Physiology Society
- National Strength and Conditioning Association

Community Service

Signal Hill Education Foundation **May 2021-Present**

-Vice President

Signal Hill School District 181 Board of Education **April 2015-April 2019**
Position: Vice President
-Personnel Committee; Chair
-Policies Committee member

American Cancer Society Relay for Life-Belleville **May 2008-2013**

Position: Event Co-Chair, Planning Committee, Team Captain
-Mission Chair, Team Captain, Event Emcee and Keynote Speaker 2011
-Event Co-Chair, Mission Chair, Event Emcee and Keynote Speaker 2010
-Planning Committee, Mission Chair, Team Captain, 2008-2013

Tricia Altmansberger, MD

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PROFESSIONAL EXPERIENCE

SOUTHERN ILLINOIS UNIVERSITY-EDWARDSVILLE Edwardsville. IL
Professor of Biology 2023-current

Courses taught:

- Biology 111 Contemporary Biology
- Biology 140 Human Biology
- Biology 240b Human anatomy and Physiology

Adjunct Professor of Biology 2022-2023

Courses taught:

- Biology 140 Human Biology
- Biology 205 Human Diseases

SOUTHWESTERN ILLINOIS COLLEGE BELLEVILLE Belleville, IL
Adjunct Professor of Biology August 2020- Current

Courses taught:

- Biology 105: Human Biology with Lab
- Biology 157 Human Anatomy and Physiology I with Lab
- Biology 158 Human Anatomy and Physiology II with Lab
- Biology 250 Microbiology with Lab

LINDENWOOD UNIVERSITY BELLEVILLE Belleville, IL
Adjunct Professor of Biology August 2010 – May 2020

Courses taught:

- Biology 227: Anatomy & Physiology I with Lab
- Biology 228: Anatomy & Physiology II with lab
- Biology 121: Nutrition
- Biology 100: Concepts in Biology

MCKENDREE UNIVERSITY Lebanon, IL
Adjunct Professor of Biology *January 2020-Current*

Courses taught:

- BIO-309 Human Anatomy and Physiology Lab
- BIO-101 Biology for Life

CARDINAL GLENNON CHILDREN'S HOSPITAL St. Louis, MO
Resident Physician 2006

- Managed medical care of pediatric patients in a hospital setting including emergency room, outpatient clinics, and inpatient care.

BELLEVILLE TOWNSHIP HIGH SCHOOL WEST Belleville, IL
Biology Teacher 2006-2010

- Planned lessons, presented information, promoted discussion, assessed performance and modified learning techniques in the study of biology for students in high school
- Developed engaging curricula including lab experiments and other scientific investigations

Tricia Altmansberger, MD

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- Planned and implementated schools policies and regulations
- Prepared and graded examinations
- Maintained student engagement

BELLEVILLE TOWNSHIP HIGHSCHOOL WEST Belleville, IL
Varsity Girls Tennis Coach 2007-2010

- Provided drills and activities to enhance player skills on the tennis court
- Arranged student travel to tournaments, supervised students according to school policy, and worked with school administration

EDUCATION

Lindenwood University and Southwestern Illinois College 2006-2007
- Selective courses in Education, 2006-2007

Saint Louis University 05/2002
- Awarded Bachelor of Arts-Psychology
- Honors summa cum laude
- Medical Scholars Program

Saint Louis University School of Medicine 05/2006
- Awarded Doctor of Medicine

CERTIFICATIONS

Initial Secondary Teaching Certificate in the State of Illinois
United States Medical Licensing Examination: Step 1, 2 CK, 2 CS

HONORS AND AWARDS

Adjunct Faculty of the Year Award 2018-2019
- The Adjunct Instructor of the Year Award is presented to the adjunct instructor who, in the judgement of Lindenwood University colleagues, demonstrates the best combination of pedagogical innovations, student-centeredness, and effectiveness as a classroom teacher during the present and prior academic years.

PROFESSIONAL AFFILIATIONS

American Academy of Pediatrics
American College of Physicians

COMMUNITY INVOLVEMENT

Junior Service Club of St. Clair County 2007- Current
Treasurer 2014-2015
Corresponding Secretary 2015-2016
Board of Directors 2012-2014

- Participated in this service organization that provides an organized resource of volunteers and financial support for various non-profit organizations in St. Clair County.