SPRING 2024 | VOLUME 11

IN EDUCATION

Blazing new pathways in digital learning





Access all the e-learning modules — anytime, anywhere

unmc.edu/egallery



LEADERSHIP

2 Office of Interactive E-Learning

2 Interprofessional Steering Committee

COHORT 13

4 Pediatric Iron Deficiency Anemia

Jenna Allison, Kelsey Anderson, Brenton Bussinger, Grace Murray *College of Medicine*

5 Dental Injections: Retractions and Fulcrums

Nicole Baker, Gina Kissel, Emma Betts, Mikayla Kiefel *College of Dentistry*

6 Standardized Telehealth Workflow Design for the Primary Care Setting

Lynne Buchanan, Katie Messner, Katie Vail *College of Nursing*

7 Here, There and Everywhere: Germ Layers and Their Derivatives

Keely Cassidy College of Medicine

Alexandria Anding, Ali Camero *Graduate Studies*

8 Introduction to Biomedical Research Modalities

Jesse Cox, Kari Nelson, Colman Freel, Rebekah Rapoza, Troy Suwondo, Wenxian Zhou *College of Medicine*

9 | Let's Talk About Sex (And Gender)!

Beth Culross, Marcia Shade, Kyle Hughes, Andy Lim *College of Nursing*

Catherine Medici-Thiemann *Student Success*

Lou Townsend College of Medicine

10 Sodium and Water Balance of IV Fluids

Paul Dobesh, Gabe Codling, Bria Tomlin, Carissa Wilson *College of Pharmacy*

11 Strategies to Build Therapeutic Rapport with Children with Autism and Complex Communication Needs

William J. Higgins, Alice Shillingsburg, Meral Koldas, Juliana Oliveira *Munroe-Meyer Institute*

12 Sexually Transmitted Infection Testing Guide: The Right Test for The Right Patient at the Right Time

Kevin McGuire, Loany Ryder, Julio Esteban Martinez, Taeler Gee *College of Allied Health Professions*

Sara Hurtado Bares, Jim Medder, Jonathan Ryder, Priya Verbik *College of Medicine*

13 Hepatitis B Virus and Interpretation of Serology in Clinical Course

Justin Mott, Noelle Pick, Keland Potthoff *College of Medicine*

14 Ergonomics in Dental Practice: A Path to Healthier Careers

Amanda Ribeiro Wobido, Kenedi Holck, Nori Khalaf *College of Dentistry*

Stacy Smallfield, Payton Swanson *College of Allied Health Professions*

15 Understanding Hypothesis Testing, Significance Level, Power and Sample Size Calculation

Lynette Smith, Su Chen, Gaurav Kumar, Aislinn Rookwood *College of Public Health*

16 Beyond the Waves: A Guide to Therapeutic Ultrasound

Kait Uwazurike, McKenzie Behrendt, Grace Blusys, Brooke Horner, Madeleine Hubka, Kyle Ott *College of Allied Health Professions*

E-LEARNING **LEADERSHIP**

Office of INTERACTIVE E-LEARNING



Peggy Moore, MSEd

Director, Interactive E-Learning Assistant Professor, College of Allied Health Professions





Steph Langel, MA, MSEd

Instructional Designer, Interactive E-Learning

Kristan P. Lester, MS

Program Manager, Interactive E-Learning

INTERPROFESSIONAL STEERING COMMITTEE

CHAIRS

Abbey L. Fingeret, MD, MHPTT, FACS College of Medicine

Peggy Moore, MSEd Interactive E-Learning

MEMBERS -

H. Dele Davies, MD, MS, MHCM Senior Vice Chancellor for Academic Affairs

Melissa A. Diers, MEd IT Academic Technologies

Bill Glass, MS iEXCEL

Karen Gould, PhD, MEd Graduate Studies **Donald G. Klepser, PhD, MBA** College of Pharmacy

Nicole Kolm Valdivia, PhD, MPH, CHES College of Public Health

Suhasini Kotcherlakota, PhD College of Nursing

Daniel Kresock Student Senate



Tuggen Even, MSEd Instructional Technologist, Interactive E-Learning

Deanna Ingram, MA

uBEATS Curriculum & Education Specialist, Interactive E-Learning

Zuzi Greiner, MSEd uBEATS Instructional Technologist, Interactive E-Learning

Megan Blusys, MA

Senior Communications & Media Manager, Academic Affairs

Jaci Lindburg, PhD University of Nebraska System Digital Education

Linda M. Love, EdD Faculty Development

Analisa McMillan, PhD, MSEd College of Public Health UNMC Distance Education Tiffany Moore, PhD, RN, SANE-A College of Nursing

Frank Pietrantoni, MS Nebraska Medicine

Yun Saksena, BDSc, MMSc, DMD College of Dentistry

Geoffrey A. Talmon, MD, MEd College of Medicine Joachim Voss, PhD, RN, ACRN, FAAN College of Nursing

Tammy Webster, PhD, MPA, RT(R)(M)(ARRT), FAEIRS College of Allied Health Professions



Pediatric Iron Deficiency Anemia

Iron deficiency anemia (IDA) is the most common nutritional deficiency in children and can have long-term consequences on growth and development.

Patients with IDA are seen frequently in the pediatric hematology clinic. IDA is evaluated and treated by several different specialists, including general pediatricians, gastroenterologists and hematologists.

We chose this project because we felt it was a topic that was applicable to learners with various specialty interests who are rotating through the pediatric hematology clinic, and it would be helpful in providing a solid foundation of knowledge on a common pediatric condition.

What is Anemia?





View the modules

Anemia Blood Smear

FACULTY PROJECT DIRECTOR

Jenna Allison, MD College of Medicine

RESIDENT/FELLOW TEAM MEMBERS

Kelsey Anderson, MD College of Medicine *Resident*

Brenton Bussinger, MD

College of Medicine *Resident*

Grace Murray, MD

College of Medicine *Fellow*

The goal of this module is to teach medical students during their pediatric hematology and oncology rotation about IDA, so they are more confident in identifying IDA and determining the appropriate treatment when they become practicing physicians.

The module will serve as a supplemental learning activity. After completing the module, learners will have the opportunity to apply the knowledge they gained by seeing actual patients in the clinic for evaluation and treatment of IDA.

This module includes interactive elements throughout for students to stay engaged and actively participate. Learners will be assessed with both formative and summative assessments within and at the end of the module. Learners will be able to take the knowledge they gain from this module and apply it to their practice in various specialties when they start practicing independently.

Dental Injections: Retractions and Fulcrums

All senior dental hygiene students complete a local anesthesia course in their fall semester. This course includes laboratory sessions where students are introduced to different types of injections. The students are required to master a specific retraction and fulcrum associated with each injection.

Since retractions and fulcrums are specific to injection, we chose this topic to help learners become familiar with the designated retraction and fulcrum before attending their laboratory sessions.

Currently, students are given a laboratory booklet with written descriptions of each retraction and fulcrum. We wanted to provide another educational resource that uses visuals and interactions to help with comprehension of the material.

Learners will use the module prior to laboratory sessions and evaluations to increase retention of the material. It will serve as an educational resource that is accessible and convenient for current and post-graduate students.

The e-module includes interactive practice questions that help the students use their critical thinking skills while applying the content. Additionally, a summative assessment will assess the learner's understanding of the information.

We believe that this e-module will increase the learner's confidence in their ability to administer dental injections. Being comfortable with dental injections will allow our students to become competent and prepared health care professionals.

Review Question

Which photo below is an example of the correct fulcrum and retraction for the left Mental Block?



20



View the modules

FACULTY PROJECT DIRECTOR

Nicole Baker College of Dentistry — Scottsbluff

STUDENT TEAM MEMBERS

Emma Betts

College of Dentistry — Lincoln *Class of 2024*

Mikayla Kiefel College of Dentistry — Lincoln *Class of 2024*

FACULTY ADVISOR

Gina Kissel College of Dentistry — Lincoln

Standardized Telehealth Workflow Design for the Primary Care Setting

Access to quality care remains a problem in rural and underserved communities.

This project addresses the use of virtual care delivery and telehealth for the problem of accessibility and provider shortage in primary care rural and underserved areas.

This module is foundational and identifies roles and performance parameters of different professionals. It uses a workflow design tool and synchronous video telehealth care delivery. The workflow design tool emphasizes patient, office staff/nurse/ telehealth coordinator and provider roles. The tool can be used by different professionals, including the advanced practice registered

nurse and undergraduate baccalaureate nursing student to learn their role and scope of practice.

Workflow design can improve quality care quadruple aims, namely through impact on clinical outcomes through attention to scope of practice and identification of best practices and standards of care for their role.

The module uses interactive videos, formative learning evaluations and virtual media methods to enhance learner's knowledge, skills and attitudes for successful implementation of virtual care delivery and telehealth using the workflow design tool.

The module assists students and helps them identify national standards and best practices for their role and scope of practice. The tool can be used along with supplemental experiences, such as simulation, standardized patients, case studies, telehealth carts, peripheral tools, remote patient monitoring, home care kits, and clinical experiences with certified telehealth providers and educators.

This module is unique by emphasizing a workflow design tool and helps learners identify national standards of care for their role and scope of practice in virtual care delivery and telehealth.



FACULTY PROJECT DIRECTOR

View the

Lynne Buchanan, PhD College of Nursing – Omaha

STUDENT TEAM MEMBERS

Katie Messner

College of Nursing – Kearney *Class of 2025*

Katie Vail

College of Nursing – Omaha *Class of 2025*

Here, There and Everywhere: Germ Layers and Their Derivatives

A germ layer is a group of cells in an embryo that interact with each other as the body continues to develop all organs and tissues. Gastrulation is the process of forming the three germ layers, which occurs in the third week of human gestation.

This topic was chosen because understanding germ layers is a foundational component essential for comprehending human development and is also extremely complex and a frequent source of frustration and/or confusion for students. Skin Fidemis Fidemis Netanocytes Sweat gland Sebaceous gland Back to Ectoderni

In this module, learners will study the steps of gastrulation and the formation of the three germ layers, as well as the parts of the

human body that derive from specific divisions of the germ layers. Learners will also be coached on how to identify patterns in the germ layer derivatives and developmental lineages, which will improve their diagnostic skills as clinicians.

This module is designed as a self-directed and self-paced supplemental learning tool in which learners can explore the content in two different ways, depending on their individual stage in education: by germ layer subdivision or by anatomical region. Thus, learners from any educational program that includes human development in the curriculum can use this module.

The module includes a combination of didactic content delivery, interactive hotspot maps of the human body, and knowledge checks to ensure consistent learning and strengthen long-term retention. Both formative and summative assessments are used to evaluate learner outcomes. Learners will apply the knowledge they gathered to answer these assessments and synthesize their learning, which culminates in a final assessment.

FACULTY PROJECT DIRECTOR

Keely Cassidy, PhD College of Medicine

STUDENT TEAM MEMBERS

Alexandria Anding Graduate Studies Class of 2026

Ali Camero

Graduate Studies *Class of 2027* View the modules

Introduction to Biomedical Research Modalities

The advancement of biomedical science relies heavily on research conducted by health care professionals. Considering the vital role of research in medicine and the importance of research literacy for future physicians, it is imperative for medical colleges to foster a culture that emphasizes research engagement from the early stages of training.

The e-module was crafted to fulfill this goal by offering students guidance in selecting research experiences that best suit their interests. We built it around three central objectives:

- Define the concepts of basic, translational and clinical research
- Highlight the advantages of engaging in research
- Provide guidance to students seeking research opportunities

The module uses faculty interviews and virtual lab tours to showcase various research possibilities and encourage students to explore their passions and goals. This brief introduction to basic, translational and clinical research is insightful to students who are newcomers to research.

It is our sincere hope that the curriculum presented helps students connect with research mentors and experiences that shape their trajectories through medicine and scientific investigation.

Our module will be incorporated into the Fundamentals Block during the first year of medical student training. This timeline is intended to support medical students endeavoring to participate in summer research experiences the following year. Student survey data stemming from the module will inform future projects aiming to support student involvement in biomedical research with the overarching goal of preparing a health care workforce invested in evidence-based medicine.



FACULTY PROJECT DIRECTOR

View the modules

Jesse Cox, MD, PhD College of Medicine

STUDENT TEAM MEMBERS

Colman Freel College of Medicine *Class of 2030*

Rebekah Rapoza

College of Medicine *Class of 2029*

Troy Suwondo

College of Medicine *Class of 2026*

Wenxian Zhou

College of Medicine *Class of 2030*

FACULTY ADVISOR

Kari Nelson, PhD College of Medicine



Let's Talk About Sex (And Gender)!

Sexual and gender diverse (SGD) people may experience inadequate, negative or discriminatory care due to health care practitioners' lack of experience and educational preparation.

Spectrums of gender and sexuality are important parts of an individual's holistic health, and as such, it is important for practitioners to have the basic knowledge to be able to interact with and provide culturally appropriate care for these individuals.

LGBTQIA+ in the United States



Americans' Self-Identification as Lesbian, Gay, Bisexual, Transgender or Something Other Than Heterosexual, 2012-2022

5.0								
0.0								
5.0		-	 -	-	-	-	-	• 7.
	100							

(Jones, 2023)

View the modules

Sex and gender development are more complex than what was previously

understood, necessitating updating information in health curricula. Health professionals will encounter and provide care for this marginalized population at some point in their career if they have not already.

This module will be integrated into an undergraduate nursing course; however, it could be used to promote learning for all health professions students and practicing providers.

This module will provide an interactive experience, as well as the opportunity for the learner to reflect on personal knowledge and potential bias. To assist in providing culturally sensitive care for SGD individuals, topics include basic terminologies related to gender and sexuality and current evidence of health inequities. Learners will be encouraged to adopt strategies to improve care for members of the SGD community.

This module is intended as a self-directed supplement to reproductive health topics in nursing classes, as a pre-class activity to supplement course material or as an active learning experience to replace lecture. Students' knowledge and confidence in using SGD terminologies and developing strategies to care for this population are assessed through quizzes and interactive elements.

By completing this module, learners will begin to develop the knowledge and skills to serve an increasingly diverse population.

FACULTY PROJECT DIRECTOR

Beth Culross, PhD College of Nursing – Omaha

STUDENT TEAM MEMBERS

Kyle Hughes

College of Nursing – Lincoln *Class of 2024*

Andy Lim

College of Nursing – Omaha *Class of 2024*

Lou Townsend College of Medicine *Class of 2026*

FACULTY/STAFF ADVISORS

Catherine Medici-Thiemann, PhD Student Success Gender and Sexuality Resource Center

Marcia Shade, PhD College of Nursing – Omaha

TABLE OF CONTENTS

Sodium and Water Balance of IV Fluids

The "Fluid and Electrolytes" section taught in the Pharmacotherapy I course is notoriously one of the more challenging sections.

This e-module provides an additional learning resource for students to obtain a better understanding of the course lectures. Our goal is to provide a more visual, interactive experience for students to grow their confidence in the material on which they will be tested.

This training paves the way for future health care workers to have a better understanding of how to regulate volume status, electrolyte changes and the timing of treatments to correct imbalances.



FACULTY PROJECT DIRECTOR

Paul Dobesh, PharmD College of Pharmacy

STUDENT TEAM MEMBERS

Gabe Codling

College of Pharmacy *Class of 2025*

Bria Tomlin

College of Pharmacy *Class of 2025*

Carissa Wilson

College of Pharmacy *Class of 2025*

The topic of sodium and water balance is significant for many different health care professions, not just pharmacy.

This module will help establish the basics of body fluids and fluid replenishment by providing visuals and examples that simplify the material. Content covered includes fluid compartments within the body, total body water calculations, abnormal fluid status and different IV fluid products. This will be used to help strengthen students' understanding of concepts learned in class by allowing them to apply what they have learned to realistic examples.

The module includes several assessment questions spread throughout the material for learners to check that they understand the content.

Strategies to Build Therapeutic Rapport with Children with Autism and Complex Communication Needs

"Bloooww,"

"Pop!"

"Wow!"

"1, 2, 3... here we gooo!".

View the modules

FACULTY PROJECT DIRECTOR

William J. Higgins, PhD Munroe-Meyer Institute

FELLOW TEAM MEMBERS

Meral Koldas, PhD Munroe-Meyer Institute

Juliana Oliveira, PhD Munroe-Meyer Institute

FACULTY ADVISOR

Alice Shillingsburg, PhD Munroe-Meyer Institute

Building rapport with children with Autism Spectrum Disorder (ASD) is essential for effective communication, trust and comfort. It helps reduce anxiety in social situations and creates a supportive environment for learning. Building rapport facilitates the development of social skills and allows for individualized support tailored to a child's unique needs.

Ultimately, building rapport contributes to positive relationships, promoting independence and a more fulfilling experience for children with ASD. The module aims to teach caregivers, educators and health care professionals practical strategies to improve interactions, support social skill development and provide individualized care.

By using this module, students, especially health care professionals, learn important skills for connecting with children on the autism spectrum. It focuses on effective communication, building trust and creating a comfortable environment for these children.

The module includes practical examples and immediate feedback to enhance the overall impact on learning and retention. The interactive and multimedia elements also enhance engagement, making it a practical and preferred method for ongoing professional development in the health care field.

Sexually Transmitted Infection Testing Guide: The Right Test for The Right Patient at the Right Time

This topic was selected because there was a noted lack of preparedness for laboratory test ordering in student volunteers at the RESPECT clinic. Test forms were often filled with crossed out orders and students often had questions about which tests were appropriate. Sometimes, patients would have to return to the clinic for additional testing missed at their initial visit.

This module's case study approach for STI testing provides realistic examples of what student providers can expect at an STI clinic. This allows students an opportunity to learn in a risk-free environment, and also provides important feedback and information to help students understand why each test is appropriate or inappropriate. When students

are more adequately prepared, fewer tests will be missed and fewer inappropriate tests will be ordered.

This module will help physician assistant and medical students practice critical thinking when faced with patient scenarios and help prepare student provider volunteers for UNMC's RESPECT clinic. Students learn a basic understanding of the timing and interpretation of serological, molecular and microscopic screening for patients who have contracted, currently or in the past, an STI.

Students are assessed throughout the module by being asked to select appropriate tests for different clinical scenarios. The module is followed by a 10-question summative assessment, which is multiple choice. Data collected from the assessment can assess student provider preparedness. When paired with a pre-test, the final assessment can be used to assess the success of the module in teaching key concepts.

Contemporary learners will appreciate the interactive nature and simplicity of this e-learning module and will feel more prepared to face different patient scenarios in STI clinics.

FACULTY PROJECT DIRECTOR

Kevin McGuire College of Allied Health Professions

STUDENT TEAM MEMBERS

Julio Esteban Martinez College of Allied Health Professions *Class of 2024*

Taeler GeeCollege of Allied HealthProfessionsClass of 2024

College of Medicine *Class of 2026*

Priva Verbik

FACULTY/STAFF ADVISORS

Sara Hurtado Bares, MD College of Medicine Jonathan Ryder, MD College of Medicine

Jim Medder, MD C College of Medicine Pr

Loany Ryder College of Allied Health Professions





Hepatitis B Virus and Interpretation of Serology in Clinical Course

Hepatitis B is a viral infection that, when left untreated, can progress to a chronic disease state, which increases the risk for cirrhosis and hepatocellular cancer. Interpreting Hepatitis B viral serology and correlating results to the progression of the disease can be challenging as a student, given the complexity and dynamic nature of the serological markers used in diagnosis.

This module seeks to help students identify epidemiological risk factors for transmission, recognize signs and symptoms, and lastly, distinguish serological patterns that arise during the disease course.

Who is at high risk for transmission of Hepatitis B? High risk infants Incarceration Unvaccinated Sharing supplies







View the modules

Endemic areas

Healthcare workers

Understanding the concept of interpretation of Hepatitis B serology

results will help future health care professionals in the management and diagnosis of Hepatitis B, and the approach to learning featured in this module can be applied to other difficult concepts students will encounter in their education and career.

Students will be allowed to progress through the module at their own pace, giving them the opportunity to interact both visually and kinetically with the information to supplement current classroom learning by expanding on traditional learning methods. Students will be able to test their knowledge throughout the module using content review checkpoints, as well as complete a summative assessment at the end of the module.

FACULTY PROJECT DIRECTOR

Justin Mott, MD, PhD College of Medicine

STUDENT TEAM MEMBERS

Noelle Pick

College of Medicine Class of 2026

Keland Potthoff

College of Medicine Class of 2026

Ergonomics in Dental Practice: A Path to Healthier Careers

Loupes

No Loupes

Ergonomics holds paramount importance for dental students as they embark on their educational journey and future careers in dentistry. These students experience a unique phase of professional growth, which encompasses rigorous training, hands-on clinical experience and the acquisition of essential skills, involving prolonged periods of precise and repetitive tasks. The combination of those factors places dental students at high risk of developing musculoskeletal disorders (MSDs).

Embracing ergonomic principles not only ensures the well-being and comfort of these future professionals but also significantly influences the quality of patient care.

By mastering ergonomic techniques, dental students can reduce the physical strain on their bodies, minimize the risk of debilitating MSDs and enhance their overall job satisfaction. Moreover, incorporating ergonomics into their daily routines equips them with essential skills that will serve as the foundation for a long, healthy and successful career in dentistry.

This e-module is a collaboration between dentistry and occupational therapy. It educates dental students and professionals on the importance of ergonomics in dentistry by illustrating common posture and ergonomic mistakes in dental practice that may lead to musculoskeletal discomfort and disorders. The e-module reviews common sites of discomfort resulting from awkward or static postures or repetitive motions and provides practical guidance on applying ergonomic principles in dental practice.

It features clinical scenarios brought to life through videos, animations and images, highlighting situations where maintaining optimal ergonomics can be challenging, and offers the dental student strategies for reducing risk and increasing comfort while learning dentistry skills.

FACULTY PROJECT DIRECTOR

View the modules

Ergonomic Loupes

Amanda Ribeiro Wobido, DDS College of Dentistry — Lincoln

STUDENT TEAM MEMBERS

Kenedi Holck

Traditional Loupes

College of Dentistry — Lincoln *Class of 2026*

Nori Khalaf

College of Dentistry — Lincoln *Class of 2026*

Payton Swanson

College of Allied Health Professions — Omaha *Class of 2024*

FACULTY ADVISOR

Stacy Smallfield, DrOT

College of Allied Health Professions — Omaha

Understanding Hypothesis Testing, Significance Level, Power and Sample Size Calculation

Hypothesis testing, significance level, power and sample size calculation are essential topics in statistics, namely in the realm of research spanning diverse fields, including medicine, psychology, economics and social sciences. They play a crucial role in empirical research by serving as the foundation for decision-making and assuring the accuracy of study findings.

These statistical principles are essential for distinguishing genuine impacts from random occurrences, assessing the dependability of findings and adequately distributing research resources. This project will serve as a significant educational resource to help students become skilled and ethical researchers capable of conducting and evaluating investigations proficiently.

In this module, students will learn about the power, sample size, types of error and how they are related. The module explores the connection between hypothesis testing or parameter estimation with power and sample size. The importance of performing a sample size calculation prior to conducting research is emphasized.

Learners will develop a comprehensive understanding of designing, interpreting, and evaluating research findings through interactive content and real-world case studies. This will enable them to make well-informed decisions based on statistical best practices.

The module's framework allows a thorough learning experience, starting from fundamental definitions and progressing to the hands-on implementation of statistical ideas. This ensures that learners acquire the essential abilities to conduct ethically appropriate and scientifically valid research.

Type I and Type II Errors

Innocent

Correct

Type I Error

Statistics – Hypothesis Null True

Type I Error

Correct

(False positive)

Guilty Verdict

Reject Null

Fail to Reject

Not Guilty Verdict

.

FACULTY PROJECT DIRECTOR

Guilty

Correct

Type II Error

Null False

Correct (Power)

Type II Error (False negative)

Lynette Smith, PhD College of Public Health

STUDENT TEAM MEMBERS

Gaurav Kumar College of Public Health *Class of 2024*

Aislinn Rookwood, PhD

College of Public Health *Class of 2023*

FACULTY ADVISOR

Su Chen, PhD College of Public Health View the modules

Beyond the Waves: A Guide to Therapeutic Ultrasound

N

This e-learning module takes the learner into the depths of therapeutic ultrasound to uncover the theory, review procedural components and explore clinical reasoning.

Therapeutic ultrasound is commonly used in physical and occupational therapy practice, and other health professions clinics as it may help reduce pain, heal tissues and decrease inflammation. Learners will advance from this e-learning module to hands-on, facultydirected learning experiences in the lab.

The module is full of multimedia and interactive elements to promote engagement while learning the key concepts, emphasizing patient/client safety and case studies.

For example, one feature is the use of analogies to make logical connections about "how it works" from the abstract nature of therapeutic ultrasound.

Another feature is a video demonstrating therapeutic ultrasound procedures from start to finish to allow the learner to see a role model expert to facilitate learning the procedural steps for safe application. The video is tailored for learners who are new to the technique providing a comprehensive guide. It also serves as an excellent refresher for those seeking to revisit the fundamentals of therapeutic ultrasound application.

This self-paced, repeatable e-learning module will be an essential educational resource for learners to be equipped for hands-on application of therapeutic ultrasound.

Class of 2025 **Brooke Horner**

College of Allied Health Professions — Omaha Class of 2025

FACULTY ADVISOR

McKenzie Behrendt, OTD

College of Allied Health Professions - Kearney

Madeleine Hubka College of Allied Health Professions — Omaha Class of 2025

Kvle Ott

College of Allied Health Professions — Omaha Class of 2025

FACULTY PROJECT DIRECTOR

Kait Uwazurike, DPT College of Allied Health Professions

- Omaha

STUDENT TEAM MEMBERS

Grace Blusvs College of Allied Health Professions — Omaha

16 INNOVATORS IN EDUCATION 2024



View the modules



EZStudio

Create polished videos with the click of a button

Lights | Camera | Microphone | Green screen | Teleprompter

unmc.edu/EZStudio

JUBEATS "

Ready-to-use, **interactive STEM modules** for grades 6-12

unmc.edu/ubeats

e shady of drag



This publication is produced by the Office of Interactive E-Learning at the University of Nebraska Medical Center.

MANAGING EDITOR & ART DIRECTOR Megan Blusys, MA

> GRAPHIC DESIGNER Brandie Morales

OFFICE OF INTERACTIVE E-LEARNING

University of Nebraska Medical Center 986710 Nebraska Medical Center Omaha, NE 68198-6710

unmc.edu/elearning



Watch the modules in their entirety, and learn more about uBEATS and the EZStudio at go.unmc.edu/elearning-showcase

