



MIDWESTERN UNIVERSITY
Health Careers Institute for High School Students

July 10-19, 2025 - DRAFT

Schedule of Activities

Thursday, July 10

8:00-8:45 AM

Welcome to MWU: Introductions & Ice Breakers: Bingo – Science Hall 130

Kim Beaudion, Special Events Manager, and MWU student mentors

Special welcome: Lori Kemper, D.O., M.S., FCOFP, Dean, Arizona College of Osteopathic Medicine

8:45-9:15 AM

Group Introductions – Science Hall 130

9:15-10:00 AM

Anatomy/Medical Terminology Games – Science Hall 130

MWU student mentors

10:00-11:00 AM

Osteopathic Medicine Overview & Lab – Agave Hall 101

Explore the history and principles of osteopathic medicine and tips for how to best take care of yourself. Learn to utilize touch as a diagnostic and treatment tool.

MWU student mentors

11:00-Noon

LUNCH – Barrel II Cafeteria

12:00-1:30 PM

ER/Ultrasound Imaging – Agave Hall 101

Discover day-to-day functions of an emergency medicine physician, including case examples, and learn to use ultrasound to view internal anatomy in real time.

Charles Finch, D.O., Chair, Integrated Medicine; and MWU student mentors

Nurse Anesthesia: Healthcare's Best Kept Secret – Ocotillo 103

An overview of the exciting careers in nurse anesthesia. Learn how an anesthesia machine works and how to intubate a mannequin.

Joseph Bailon, D.N.P., CRNA, Assistant Professor, Nurse Anesthesia

1:30-3:00 PM

ER/Ultrasound and Nurse Anesthesia Workshops

Same as above - switch groups

3:00-3:30 PM

Group Introductions – Science Hall 130

3:30-4:00 PM

Advisory Groups – Science Hall 130

Friday, July 11

8:00-8:30 AM

Ice Breakers - Line Up!

MWU student mentors

8:30-11:30 AM

Clinical Skills Training – Agave Hall Second Floor

Introduction:

The Clinical Skills and Simulation Center: Welcome

Jacqueline Spiegel, M.S., PA-C, Professor, Director of Clinical Skills & Simulation

Station #1

High Fidelity Simulation Scenarios - SIM Rooms 2, 3

Watch patient-provider encounters featuring life-like mannequins of human adult models. Learn the art of evaluating a patient in the ER and providing lifesaving measures.

MWU student mentors

Station #2

Vital Signs and Other Clinical Skills – Exam Rooms 1, 3, 5, 7

Learn techniques for taking patient vital signs and performing physical exams using in-room equipment.

MWU student mentors

Station #3

History-Taking Interview – Exam Rooms 10, 12, 14, 16

Learn the key elements of performing a History Interview.

MWU standardized patients

Station #4

Gowning and Gloving – Scrub Room/ Mock OR A & B

Learn about the operating room environment by preparing for a patient surgery.

MWU student mentors

Station #5

SOAP Notes/Prescription Writing – Classroom 220

Practice the tricks of the trade in listening, taking notes in an exam, and writing prescriptions for a patient.

MWU student mentors

11:30-12:30 PM

LUNCH – Barrel II Cafeteria

12:30-1:30 PM

Physical Therapy: Mobility is Medicine – Wellness and Recreation Center Gym

Learn about careers in Physical Therapy, try out PT equipment, and practice different assessment and therapy techniques. Come dressed in clothes you can move in!

Patrice Ayala, PT, D.P.T., Assistant Professor, Physical Therapy, and MWU physical therapy students

Physician Assistant Studies: Clinical Skills Lab - Science Hall 150

Learn about career options as a Physician Assistant and take part in a hands-on “skin” biopsy and suturing workshop.

Deborah Black, M.S., PA-C, Associate Professor & Clinical Coordinator; Marcia Bouton, D.M.Sc., M.H.P.E., PA-C, DFAAFA, Assistant Professor; Nicole Hamilton, M.P.A.S., PA-C, Assistant Professor; Gretchen Post, M.S.P.A.S., PA-C, Associate Professor & Clinical Coordinator; Jenn Wild, D.O., Assistant Professor

1:30-2:30 PM **PT and PA Workshops**
Same as above - switch groups

2:30-3:30 PM **Introduce Bone Contest – Science Hall 130**

3:30-4:00 PM **Advisory Groups – Science Hall 130**

Monday, July 14

8:00-8:30 AM **Ice Breakers: Medical Heads Up/Charades – Science Hall 130**

8:30-9:00 AM **Advisory Groups – Science Hall 130**
Group Names & Saturday Presentations

9:00-10:00 AM **Venipuncture Skills Lab – Agave 212, 220**
Practice the art of phlebotomy (drawing blood). Note: blood activities are simulation only; no actual blood is involved.
MWU student mentors, with Danielle Barnett-Trapp, D.O., Clinical Associate Professor, Arizona College of Osteopathic Medicine

Introduction to Public Health – Science Hall 150
Learn about the major areas of public health and their roles in healthcare.
David Line, Ph.D., M.P.H., M.S.W., Program Director, and Tiffany F. Hughes, Ph.D., M.P.H., M.B.A., FGSA, Assistant Professor, Master of Public Health Program

10:00-11:00 **Venipuncture and Public Health Workshops**
Same as above – switch groups

11:00-12:00 PM LUNCH – Barrel II Cafeteria

12:00-1:30 PM **Interview Skills & Application Writing Workshop – Science Hall 130**
Bery Khorany, M.P.A., Admissions Counselor; Amanda Jones, Communications Coordinator; and MWU student mentors

1:30-2:30 PM **Medical Ethics: An Interactive Case Study – Science Hall 150**
Apply principles of biomedical ethics and learn about its importance in decision making.
Nathan Johnson, Ph.D., Associate Professor, Biomedical Sciences, and MWU student mentors

Clinical Psychology: A Look Inside Your Mind – Science Hall 130
Learn the role that psychology plays in a clinical setting and in everyday life; some of it may surprise you. Make your own Rorschach inkblot!
Angela Breitmeyer, Psy.D., Associate Professor, Clinical Psychology; and MWU clinical psychology student Elizabeth Hobbs

2:30-3:30 PM **Medical Ethics and Clinical Psychology**
Switch groups – same as above

3:30-4:00 PM **Advisory Groups – Science Hall 130**
Group Names & Saturday Presentations

Tuesday, July 15

8:00-9:30 AM **Group Photo/Advisory Groups - Sahuaro Reflecting Pond**
Wear Your MWU Shirt

Bone Contest Preparation – Cholla Hall C

9:30-11:00 AM **Careers in Dental Medicine – Glendale Hall Simulation Lab 206**
Learn about dental school and career options in dentistry, then try your hand at different stations in the high-tech dental simulation lab.
Alexandra Pierre-Bez, D.M.D., M.Ed., Associate Professor; Daphne Velazquez, D.D.S., Assistant Professor, College of Dental Medicine-Arizona and MWU dental students

Biomedical Sciences/Blood Typing Lab – Science Hall 150
Accurate diagnostic testing is a vital part of any healthcare team! Learn to perform blood typing to determine which donor's blood is safe to transfuse into a patient.
Adebayo Molehin, Ph.D., M.S., Assistant Professor, Microbiology and Immunology, and MWU student mentors

11:00-12:30 PM **Dental Medicine and Blood Typing Workshops**
Switch groups – same as above

12:30-1:30 PM LUNCH – Barrel II Cafeteria

1:30-2:30 PM **Podiatric Medicine Overview & Lab – Glendale Hall 324**
Understand career options in podiatric medicine and practice examining the lower extremity, studying gait, suturing, using the doppler, and conducting noninvasive vascular labs.
David Jenkins, D.P.M., FACPAS, Professor, Arizona College of Podiatric Medicine, and MWU podiatry students

Cardiovascular Perfusion Overview & Lab – Ocotillo 108
Learn the perfusionist's role in open-heart surgery, view a working heart and lung machine, and try your hand at a life-saving procedure.
Kyle Dana, D.C., Program Director, Cardiovascular Science

2:30-3:30 PM **Podiatry and Perfusion Labs**
Switch groups – same as above

3:30-4:00 PM **Advisory Groups – Science Hall 130**

Wednesday, July 16

8:00-8:30 AM **Ice Breakers: Rock Paper Scissors – Science Hall 130**

8:30-9:30 AM **Food is Medicine: The Basics Workshop & Breakfast – Cafeteria**
MWU Chef David and MWU student mentors

9:30-10:45 AM **Precision Medicine for the Future – Science Hall 150**
A look at the rapidly evolving use of genomic data in healthcare fields, including hands-on computer interactions.
Garilyn Jentarra, Ph.D., Program Director, and Kimberly Bussey, Ph.D., Assistant Professor, Precision Medicine

Health Professions Mentor Panel – Science Hall 130

Listen to first-hand experiences from current healthcare professions students on how they got there and where they are headed. There will be plenty of time for Q&A, so come prepared with questions!
MWU student mentors

10:45-Noon **Precision Medicine and Mentor Panel Workshops**
Switch groups – same as above

12:00-1:00 PM **LUNCH – Barrel II Cafeteria**
Optional Small Group Table Topics
Professionalism
Emergency Medicine
Mindfulness
TBD

1:00-2:15 PM **Speech-Language Pathology: Tools for Improving Communication – Cactus Wren 240**
Learn about careers in the exciting field of Speech-Language Pathology. Participate in workshops about the larynx, vocal cord function, and therapy techniques for those who have lost their ability to phonate.
Sharon Edwards, M.S., CCC-SLP, Clinical Assistant Professor, Speech-Language Pathology

A Look Inside Human & Animal Bodies – Sahuaro Anatomy Lab 101

View human and animal anatomical specimens such as a heart, arm, brain, and others in a medical school anatomy lab. No actual dissection involved.
Andrew Lee, Ph.D., Professor, Anatomy, and MWU student mentors

- 2:15-3:30 PM **SLP and Anatomy Labs**
Switch groups – same as above
- 3:30-4:00 PM **Advisory Groups – Science Hall 130**
Presentation Planning

Thursday, July 17

- 8:00–8:30 AM **Ice Breakers: Mafia - Science Hall 130**

- 9:00-10:00 AM **An In-Depth Large Animal Experience – Large Animal Center**
Join us for a fun, slightly dirty, hands-on encounter that will leave you with a better understanding of a day in the life of a large animal veterinarian! Interact with horses and cows to learn about the basics of handling as well as the equipment veterinarians employ to perform a physical exam and make a diagnosis, including how to assess temperature, pulse, and respiration.
Sarah Matyjaszek, D.V.M., DACVS, Clinical Associate Professor, College of Veterinary Medicine; and MWU veterinary students

Discovering Animal Diagnostic Pathology Skills – Diagnostic Pathology Center
Get an up-close view of how veterinary pathologists study animal specimens to understand how they died, including working with police to help stop animal abusers.
Sylvia Ferguson, D.V.M., Ph.D., DACVP, Chair of Necropsy, College of Veterinary Medicine

Virtual Reality for Health: A Visit to the Computer-Assisted Rehabilitation Environment (CAREN) – Therapy Institute First Floor
This advanced virtual reality platform is one of fewer than 20 in the U.S. and just 50 worldwide, offering a unique combination of immersive environments and precise data collection. The CAREN system is a vital tool for Midwestern's faculty healthcare providers and researchers, enabling a deeper understanding of human movement, balance, and rehabilitation.
Bill Denton, M.S., Biomedical Engineer, Therapy Institute

- 10:00-11:00 AM **Large Animal, Pathology, and CAREN Workshops**
Switch groups – same as above
- 11:00-Noon **Large Animal, Pathology, and CAREN Workshops**
Switch groups – same as above
- 12:00-1:00 PM **LUNCH – Barrel II Cafeteria**

1:00-2:00 PM	Envision Optometry – Glendale Hall 131-132, 110, and 126 Learn about the specialties within the field of optometry and practice eye exams and other activities in the optometry labs. <i>Rachel Stephan, O.D., FAAO, Assistant Professor; Pierce Kenworthy, O.D., FAAO, Associate Professor; Kevin Helmuth, O.D., FAAO, Professor, Arizona College of Optometry; and MWU optometry students</i> Cultural Humility in Medicine – Wellness and Recreation Center Gym Explore ways in which personal and cultural values, biases, and views impact society and healthcare. <i>MWU student mentors</i>
2:00-3:00 PM	Optometry and Cultural Humility Workshops Switch groups – same as above
3:00-4:00 PM	Bone Contest – Science Hall 130 <i>MWU student mentors</i>
Friday, July 18 8:00-8:30 AM	Advisory Groups – Science Hall 130 Presentation Planning
8:30-10:00 AM	Clinical Skills & Simulation Contest – Agave Hall Put your clinical and patient skills into action in a real-life patient scenario! <i>Brian Monaghan, M.P.A., Assistant Director, Clinical Skills & Simulation Center; and MWU student mentors</i> The Many Roles of a Pharmacist – Cholla Pharmacy Lab 101 Discover the many career paths available to pharmacists, including the role of the pharmacist in proper medication management and opportunities in pharmaceutical research. Practice activities in the pharmacy lab. <i>Melanie Jordan, Ph.D., Associate Professor, Pharmaceutical Sciences, and MWU pharmacy students</i>
10:00-11:30 AM	Clinical Skills/SIM Contest and Pharmacy Workshops Switch groups – same as above
11:30-12:30 PM	LUNCH – Barrel II Cafeteria
12:30-2:00 PM	Occupational Therapy: Skills for the Job of Living – Glendale Hall Lab 317 What does an occupational therapist do? Understand career options and practice utilizing adaptive equipment and dexterity games to improve patient function.

Katherine Schofield, D.H.S., OTR/L, CHT, Assistant Program Director; Holly Rae Jones, M. OTR/L, Instructor; Cynthia Selim, D.Sc., OTR/L. Assistant Professor, and MWU occupational therapy students

The Wonderful World of Small Animal Veterinary Medicine – Companion Animal Center Simulation Center Third Floor

Find exciting careers in veterinary medicine, from cats and dogs to birds, snakes, research, and more! Practice life-saving CPR techniques on dog mannequins, learn how to do a dog or cat physical exam, and test your skill reading small animal x-rays. *Anderson da Cunha, D.V.M., M.S., Dipl. ACVAA, Director of Companion Animal Clinic, Professor, College of Veterinary Medicine*

2:00-3:30 PM **OT and Small Animal Workshops**
Switch groups – same as above

3:30-4:00 PM **Advisory Groups – Science Hall 130**

Saturday, July 19

8:00-9:00 AM **Advisory Groups/ Presentation Planning – Ocotillo E, F, G**

9:00-10:30 AM **Eyes on Health: Understanding the Ocular Impact of Systemic Diseases – Science Hall 130**
Explore the vital connection between eye health and systemic diseases in this interdisciplinary workshop. Discover how conditions like diabetes, hypertension, autoimmune disorders, and more can manifest in the eyes—often serving as early warning signs of broader health issues.
MWU Student Mentors

10:30 AM - Noon **First Aid/Sports Medicine: Common Injuries and How to Treat Them – Agave Hall 101**
Learn how to avoid, diagnose, and treat some of the most common injuries in athletics. Try your hand at immobilizing joints with athletic tape and more.
MWU student mentors

12:00 1:00 PM **LUNCH/ Evaluations/ Advisory Groups – Ocotillo E**

1:00-3:00 PM **OPEN HOUSE RECEPTION for Friends & Family – Ocotillo G**

- *Welcome/ MWU Overview*
- *Videos*
- *Student Group Presentations*
- *Awards*

3:00 PM **END PROGRAM**