Bound Together

# Medical Pathways STEM Camp: Schedule

July 21-25, 2025

Dear students,

On the following pages, you will find our detailed schedule for the day, along with the accompanying slides and lab instructions. Please note that this is subject to change. We will, of course, do our best to notify you in advance. We appreciate your understanding and flexibility.

-Dr. Kemp

# Day 1: Cells and the body



- Arrive in the commons room, use the bathroom, and eat a snack, 9:10-9:30 am.
- Welcome and take the pretest over all units, 9:30 to 10:15 am.
- Learn about cells, eukaryotes vs prokaryotes, and the importance of cells in the body, 10:20-11:00 am
  - (Snack given during the lesson!)
- Cell Lab with your team in the classroom, 11:05 to 11:50 pm
  - (a) Part I- learn to use a foldscope AND GET MEASURED FOR LABCOATS
  - (b) Part II-cheek cell wet mount
- You will learn about body systems with your team in the classroom, 12:00-1:20 pm
- Lunch and gym 1:20-2:20 pm
- Learn about infographics in the commons room, 2:25-3:00 pm
- Begin working with team members and mentors to identify a topic to research in the commons room, 3:00-3:40 pm
- Clean up, review, and then head home, 3:45-3:55 pm

**Emergency: Save a life**



- Arrive in the commons room, use the bathroom, and eat a snack, 9:10-9:30 am.
- Have the dissection practical in the commons, 9:30-10:15 am
- Snack/ bathroom break 10:15-10:30 am
- Learn about CPR and stop the bleed in the commons, 10:30-12:00 pm
- Finish your Microscope and Cell Lab in the classrooms, 12:05-12:55 pm
- Lunch and gym, 1:00-2:25 pm
- Group time in the classrooms, 2:30-3:40
- Clean up, review, and then head home, 3:45-3:55 pm

# Day 3: Microbes and Human Health



- Arrive in the commons room, use the bathroom, and eat a snack, 9:10-9:30 am.
- Learn about bacteria, viruses, and fungi, 9:30-10:50
    - Quick lecture with a  hand washing lab in the commons
- Snack and bathroom break 10:50-11:05 (commons)
- Learn about your immune system and its importance in maintaining human health, 11:10-1:00
    - Lecture in the commons
    - Phagocytosis lab in the classroom
- Lunch/gym from 1:00-2:25
- Group research time in the classrooms, 2:30-3:40
- Clean up, review, and then head home, 3:45-3:55 pm

# Day 4: Sepsis and the role of health professionals in saving a life




- Arrive in the commons room, use the bathroom, and eat a snack, 9:10-9:30 am.
- Learn about sepsis and participate in a case-based learning activity in the classrooms, 9:30-10:10 am
  - Identify common causes of sepsis
  - Learning about medically related careers
- Bathroom break and travel to the commons 10:15-10:30 am
- Group discussion about the case in the commons, 10:30-11:00 am
  - Snack provided!
- Discussion of how to evaluate peers and the infographic rubric in the commons, 11:00-11:30 am
- Group DNA isolation lab, 11:35-12:30 pm
- Lunch and gym 12:30 pm-2:45 pm
- Group time- 2:45-3:45
- Clean up, review, and then head home, 3:45-3:55 pm

# Day 5: Group presentations and learn more about careers



- Arrive in the commons room, use the bathroom, and eat a snack, 9:10-9:30 a.m.
- Take the post-test in the commons, 9:30-10:15 a.m.
- Bathroom break 10:15-10:30 am
- Discussion related to opportunities at OUWB with Ms. Trixy Hall, 10:30-11:15 a.m.
- Discussion with OUWB admissions on how to prepare now for success and what med schools look for, 11:15-12:00
    - snack served during this time
- Bathroom break 12:00-12:10
- Work with group members on infographic presentation or gym time, 12:10-1:00 pm
- Discussion with Drs. Taranikanti and Ayala about their journey in medicine, 1:00-1:30 pm
    - Zoom and in person in the commons, 1:00-1:30
    - Lunch will be served
- Gym or prep time with groups if needed, 1:40-2:20
- Group infographic presentations in the commons, 2:30-3:00
- Complete evaluations of peers and the program, 3:10-3:40
- Receive their certificate of completion and wrap up-3:45-3:55