

Girls GO STEM 2019

December 7, 2019

Medical Education and Research Facility, University of Iowa

STUDENT AGENDA:

Students have been placed in four sessions based on their pre-selected registration. Due to classroom space, safety, and as a courtesy to our presenters, we are unable to accommodate session changes or additions. Session assignments are listed on their name tag. Thank you for your cooperation and understanding.

8:15 to 8:55 a.m.	Check-in and grab-and-go breakfast	Atrium, first floor
9:00 to 9:30 a.m.	Opening session w/ Speaker Prepare for the fun morning ahead in this opening session where you will learn why STEM is so important and what you can do to make the most of your experience.	Prem Sahai Auditorium, 1110
<i>Classroom numbers are listed on the student's name tag and agenda. Please visit the information tables located on the first and second floors for assistance locating the classrooms.</i>		
9:35 a.m. to 12:00 p.m.	Students will rotate through four—30 minute sessions	
	9:35 to 10:05 a.m. Session 1	
	10:10 to 10:40 a.m. Session 2	
	10:50 to 11:20 a.m. Session 3	
	11:25 a.m. to Noon Session 4—designated parent observation <i>Complete evaluations; program concludes</i>	

Dentistry: Smiling Makes a Difference

Let's practice Dentistry! Enjoy this experience by fixing a broken tooth in a dental model that simulates a patient's mouth.

Inside Science & Small Wonders: How Microbes Shape Our World

Discover microbes (tiny organisms that cause disease) and how they spread as you explore the world of research and how new treatments come from biomedical discoveries!

Med Student 101

Learn what it takes to succeed in medical school by learning how to perform basic physical examination skills.

Medications and Mixtures: Making Your Own Lip Balm

See what it's like to 'mix stuff up' in a pharmacy lab by making your own lip balm and learning about pharmacy school with current University of Iowa pharmacy students.

Learn like a Nurse

Learn about the human body and make a "blood cell." You will discuss different scenarios and how each of the components work to help clot, heal, and react within the body given various everyday events that may arise.

The Chemistry behind Candles, Perfumes, and Other Smells

Learn about the science behind what makes something smell and why a skunk smells differently than a rose. You will practice identifying various smells and will get to make lotion with a scent of your choice!

Neuroscience: Be a Brainiac

Challenge yourself with hands-on neuroscience activities that test your perceptions and challenge your brain. Learn about the nervous system and how it affects your behavior.

Anesthesia Simulation

Learn about anesthesia, or medicine that is used during surgical procedures to monitor pain and comfort of a patient. Through interactive activities and simulations, you will see how anesthesiologists prepare to handle the worst case scenario in a surgery.

Public Health: Disease Detectives

Learn how public health departments keep communities safe and healthy. Become a disease detective for just one day and help stop an outbreak from spreading across the globe!

Radiology: It's All About the Images

See what it's like to work in radiology and take different types of images of the body to find problems inside the body, not visible to the naked eye.

Orthopedics: Bad to the Bone

Look at x-rays to identify broken bones. Learn about treatment methods including surgical techniques and casting, as you take a look at some surgical implants and try your hand at casting.

The Surgeon Is In

Scrub in for surgery and learn about surgical techniques with medical students. Try your hand at stitching a fake wound and test your visual-spatial skills at minimally invasive laparoscopic surgery.

Neonatology: Caring for the Smallest Patients

Explore the field of neonatology and caring for the world's smallest patients, or premature babies. Experience how caring for babies is much different than caring for adults as you try your hand at a baby intubation simulation.

Genetics: It's All About the Genes

Learn about the genes that make you "you". Then, you will practice predicting what risk a baby may have to genetic disorders before they are even born.

Respiratory Therapy: Just Breathe

Experience what it takes to be a respiratory therapist and help patients who have trouble with breathing as you test out equipment to identify what is wrong.

Child Development

Engage in hands-on activities with students going into care for children with hearing and moving difficulties. You will get to see and test out the methods they use to help these children overcome some of these difficulties.

Mock OR

Learn about the different jobs that make the operating Room run effectively. You will also take a look at the surgical instruments used during operations.