

# Girls GO STEM

December 7, 2019

## ADULT AGENDA:

- 8:55 a.m. Student arrives to their opening session in Prem Sahai Auditorium, Room 1110
- 9:00 to 9:30 a.m. **Session attendance** **Various Classrooms**  
*Get a glimpse at what your student will be learning today by attending their first hands-on session!  
Please review your student's agenda in your folder to find your assigned session and room number.*
- 9:30 to 10:00 a.m. **#ILookLikeASurgeon (and these women do, too)** **Prem Sahai Auditorium, 1110**  
*Amy Pearlman, MD, Clinical Assistant Professor of Urology, Men's Health Program Director*  
Receive information on encouraging students to pursue careers in health care.
- 10:00 to 10:30 a.m. **My Path to Medicine** **Prem Sahai Auditorium, 1110**  
*Natalie Ross, 2nd Year Medical Student, UI Carver College of Medicine*  
Hear from a current medical student and officer with the UI Carver College of Medicine's American Medical Women's Association chapter about experiences that led to choosing medicine.
- 10:30 to 11:00 a.m. **The importance of addressing gynecologic needs of adolescents** **Prem Sahai Auditorium, 1110**  
*Elizabeth Graf, PA-C, Obstetrics and Gynecology*  
Engage in an open discussion with an adolescent health expert to address key adolescent health topics and how choices and behaviors adopted by adolescents' during these years influence their overall health and well-being.
- 11:00 to 11:30 a.m. **Preparing for high school and beyond** **Prem Sahai Auditorium, 1110**  
*Susan Dickinson, M.Ed., Assistant Director, High Ability Recruitment, UI Admissions*  
Learn about how you can begin to prepare your student for an academic career in STEM and have the opportunity to have your high school and college readiness questions answered by an admissions expert.
- 11:30 a.m. to noon **Observe girls in their sessions\*** **Various Classrooms**  
*Students will be in their final session during this time.*

\*When observing your girls in their sessions, please help to encourage them to meet new friends, try new things, and engage in the active learning. We ask that parents allow the students to have full access to get involved while you stand aside, or outside the room, and observe. Feel free to take picture of your girls engaging in their activities and share online.

### **A special thanks to our partners in delivering this program!**

*A special thanks to University of Iowa faculty, staff, and students who have made this event possible through providing educational programming and volunteering, as well as to schools and community organizations for supporting this program through promotion and informational tables.*

**CAPTURE A PHOTO AND SHARE!**

**#GirlsGoSTEM**

# Girls GO STEM

December 7, 2019

## STUDENT AGENDA:

Session assignments are listed on students name tag based on pre-selected sessions during registration. Due to classroom space, safety, and as a courtesy to our presenters, we are unable to accommodate session changes or additions. Volunteers will be stationed throughout the first and second floors to assist students in locating their sessions.

<b>8:15 to 8:55 a.m.</b>	<b>Check-in and grab-and-go breakfast</b>	<b>Atrium, first floor</b>
<b>9:00 to 9:30 a.m.</b>	<b>Pearls of Wisdom: Lessons Learned from a Woman in a Men's Health Field</b> <i>Amy Pearlman, MD, Clinical Assistant Professor of Urology, Men's Health Program Director</i> 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.	<b>Prem Sahai Auditorium, 1110</b>
<b>9:35 a.m. to 12:00 p.m.</b>	<b>Students will rotate through four—30 minute sessions</b>	
	<b>9:35 to 10:05 a.m. Session 1</b>	
	<b>10:10 to 10:40 a.m. Session 2</b>	
	<b>10:50 to 11:20 a.m. Session 3</b>	
	<b>11:25 a.m. to Noon Session 4—designated parent observation</b> <i>Complete evaluations; program concludes</i>	

### **Anesthesia Simulation (ROOM 1151)**

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.

### **The Chemistry behind Candles, Perfumes, and Other Smells (ROOM 2135)**

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 hand sanitizer with a scent of your choice!

### **Child Development (ROOM 1171)**

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.

### **Dentistry: Smiling Makes a Difference (ROOM 1139)**

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

### **Genetics: It's All About the Genes (ROOM 2126)**

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.

### **Hawk-Eyes on Science and Hawk-Eyes in Space (ROOM 1143)**

Explore physics through hands-on demonstrations and discover astronomy, electricity, optics and more! See and feel for yourselves the forces in nature that make up the world.

### **Inside Science & Small Wonders: How Microbes Shape Our World (ROOM 1135)**

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!

### **Learn like a Nurse (ROOM 2123)**

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.

### **Med Student 101 (ROOM 2165)**

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 (ROOM 2156)**

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.

### **Mock OR (ROOM 1181)**

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.

### **Neonatology: Caring for the Smallest Patients (ROOM 1185)**

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.

### **Neuroscience: Be a Brainiac (ROOM 1121)**

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.

### **Orthopedics: Bad to the Bone (ROOM 2136)**

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.

### **Public Health: Disease Detectives (ROOM 1163)**

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 (ROOM 1155)**

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.

### **Respiratory Therapy: Just Breathe (ROOM 2155)**

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.

### **A Stitch in Time: Surgery Technique (ROOM 2166)**

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.