

# Kids GO STEM

March 7, 2020

## 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.

8:00 to 8:45 a.m.	Check-in and grab-and-go breakfast	Atrium, first floor
9:00 to 9:30 a.m.	Opening Session with Students and Adults	Prem Sahai Auditorium, 111
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>	

### 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.

### Chemistry in Our World

Experience what it's like to be a chemist through fun hands-on experiments that illustrate key chemical concepts that show the power of beauty and chemistry.

### 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!

### Learn like a Nurse

See how nurses are educated and perform hands-on experiences to explore what nursing students learn through simulations.

### Med Student 101

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

### Gross Anatomy

Do you ever wonder how we do what we do every day? In this session, you will learn about parts of the human body and what function they play as you examine human organs.

### Emergency Medicine

Discover what it takes to be a paramedic and respond to emergency medical situations. You will practice responding to these types of situations using simulation dummies to learn CPR and AED use.

### Hawk-Eyes on Science and Hawkeyes in Space

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.

### 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.

### 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.

### 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.

### 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.

### Crime Investigation

Join our laboratory science team to help solve a crime. See how laboratory scientists use their skills and resources to test specimens and find out "who dunnit?".

### Engineering Surgical Skills

See how engineering ties into health care as you practice using surgical simulation devices created by engineers at the University of Iowa that are used to train orthopedic surgeons on key parts of surgeries they commonly perform.

### A Stitch in Time: Surgery Technique Simulation

Learn about a career in surgery and practice your surgical skills including surgical knot tying, suturing, and laparoscopic surgery with medical students.