

Use This to Collect Student Information

Name _____ Grade _____

School Name _____ T-Shirt Size _____

Parent Name _____

Parent Email Address _____

Emergency Contact Phone Number _____

Any Dietary Needs _____

CAREER DISCUSSION SELECTION

Please list the letters of the career sessions (A-R) in the order of your preference. Efforts will be made to assign you to those you choose.

1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____

HANDS-ON WORKSHOP SELECTION

Please list the numbers of the Hands-on Workshops (1-24) in the order of your preference. Efforts will be made to assign you to those that you choose.

1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____



Student registration is limited to the first 220 registrations. There is no longer a student limit per school.

Registration deadline is January 31st or until filled. Many times the event fills before the deadline so register quickly.

You must preregister to attend. No on-site registrations will be accepted

A full refund will be given for cancellations that are received by February 14. No refunds will be made after this date.

Photos may be taken during the event and used to promote the event on websites, brochures, or social media.


To Register Your Student(s):

Go to www.emporia.edu/stemoutreach and scroll down to the EYF program section. Click on the “To Register” link, select the STUDENT registration button and fill out the online form. A list of the Career and Workshop sessions offered this year is included in this brochure. Finish registering by making your online payment.

Registration fee is \$35

Includes lunch, t-shirt, bag and all conference materials

Additional information about the event will be emailed to each student’s parent (and teacher if a teacher is bringing the student to the event) within a day or two of registering. This will confirm that your student is registered for the event. Please use the form in this brochure to help collect information from your student(s) to make registration easier for teachers or parents. Do not mail this form to us to register for the event.

 **Warning: The online form cannot be saved and finished later. It will time you out and you will lose your progress if left idle.**

If teachers are registering more than 10 students, we suggest splitting up your registration into two or more submissions as your time allows or sending a special request to:

hhollenb@emporia.edu

Another link and instructions will be sent to you to help make registration go more smoothly for those registering many students at one time.

Adult Registration:

Go to www.emporia.edu/stemoutreach and scroll down to the EYF program section. Click on the “To Register” link, select the ADULT registration button and fill out the online form. Finish registering by making your online payment. Additional information will be emailed to you to confirm your registration.

Registration fee is \$40

Includes lunch, t-shirt, bag and all conference materials

Note: Adult participants have their own schedule during this conference and do not accompany their students/child during the day.



Conference Goals

To increase young women’s interest in science and mathematics.

To foster awareness of career opportunities in mathematics and science-related fields.

To provide young women with an opportunity to meet and form personal contacts with women working in mathematics and science-related careers.

Conference Planning Committee

Melodi Bowen
Rosalinda Garcia
Dana Hess

Holly Hollenbeck
Daphne Mayes

Sponsors

Emporia State University
School of Science and Mathematics
STEM Outreach & Engagement
State of Kansas

Thank you to the volunteers who make this event possible.

Questions?

Call ESU STEM Outreach & Engagement
620-341-5636

Or go to the program’s website
www.emporia.edu/stemoutreach



ENHANCING YOUR FUTURE

WITH MATHEMATICS & SCIENCE

March 1st 2025

EMPORIA STATE UNIVERSITY



A Conference For Young Women In Grades 6-8

Schedule

8:00	Registration	
9:00	Welcome	
9:15	Featured Speaker	
10:15	Career Discussion #1 Adult Session	
10:45	Career Discussion #2 Adult Session	
11:15	Career Discussion #3 Adult Session	
11:45	Lunch	
12:20	Chemistry Show	
1:20	Hands-on Workshop #1	
2:10	Hands-on Workshop #2	
3:00	Receive T-shirts	



Career Discussion Sessions

- A. **Entrepreneur:** Educators 2 STEM Entrepreneurs
- B. **STEM Outreach:** It Is a Career
- C. **Environmental Health:** Keeping Everyone Safe
- D. **Zookeeper:** Come Work On the Wild Side
- E. **Educational Designer & Soil Scientist:** Caring For the Earth & People
- F. **Science Educators:** Rewarding & Important
- G. **Environmentalist:** The Meandering Career Path
- H. **Cyber & Technology:** Jobs, Salaries & Education
- I. **Geologist:** Not Just Rocks
- J. **Astronomer:** What Careers Are Out There
- K. **Nurse:** Stethoscopes, Scrubs & Rubber Gloves
- L. **Mathematician:** A # 1 Career
- M. **Biologist:** Science Without Borders
- N. **Geochemist:** Taking You To Unexpected Places
- O. **Hydrogeologist:** Understanding Groundwater
- P. **Animal Care:** No Degree to USDA
- Q. **Microbiologist:** Fierce & Fearless
- R. **Nuclear Power:** Atom Smashers

Adult Sessions

A morning presentation about other STEM opportunities for students at ESU will be shared with the teachers and parents who attend. Attend hands-on workshops! Be supportive of your daughter/student who is interested in math and science.

Hands-on Workshops

- 1. **LEGO Code & Construct**
Create a structure and bring it to life with motors, lights, sensors and gears, all programed to respond to your code.
- 2. **Amphibian Adventure**
Discover the anatomy of a bullfrog through an interactive dissection.
- 3. **Secret Codes**
Learn a variety of ways to encode a message. Then code a secret message to a friend.
- 4. **Encounter the Wild**
Do you have what it takes to save the world? We'll discuss what it takes to work in the world of zoos, wildlife research and conservation.
- 5. **Stop & Smell the Roses**
Create your own custom perfume with essential oils.
- 6. **What's Up Doc?**
Join a physician as she shares the tools and tricks of the profession.
- 7. **Food of the Future**
Explore how food science can optimize the use of novel crops like Kernza perennial grain and examine gluten's role in textures of wheat products and its impact on expectations for new grains.
- 8. **The Neuroscience of Learning**
Join two veteran science teachers as they show you how you learn.
- 9. **Wind Energy**
Discuss the pros and cons of wind energy. Then construct a pin-wheel windmill and test it.
- 10. **Hacking—What Is It?**
Learn about computer hacking while playing some hacking cyber games.
- 11. **Chemistry Lab**
Learn the chemistry behind some household products and make some for yourself.
- 12. **Volcanoes Are a Blast!**
Learn how volcanoes explode by building your own model of one.
- 13. **Night Sky Tour**
Learn about the stars and constellations during a star show in ESU's Peterson Planetarium.

14. A Caring Touch

Get a hands-on experience of a day in the life of a nurse using realistic patient simulators and equipment used by nurses.

15. Build-A-Beast

Explore how deep-sea fishes and parasites survive in extreme conditions that characterize the deep sea. Then create your own deep-sea fish and parasite using art materials.

16. Paws, Claws & Jaws

What makes a horse different from a mouse? Or a bat different from a whale? Learn how this vast biodiversity came to be and try surviving yourself as a wild mammal in a changing environment.

17. Water, Water Everywhere

Learn about water quality sampling techniques and see the differences in soil properties through soil water density.

18. Let's Play SET

Put your best reasoning skills to the test as you learn to play the game of SET.

19. Nature's Sweet Treat

Learn about the evolution of floral features to its best suited pollinator and the importance of pollinator diversity. Then make some floral variations of your own.

20. Mathellaneous

Visit ESU's math museum where you can view historical mathematical exhibits, solve interactive puzzles and more.

21. Diagnostic Ultrasound

Lean about radiology and view a real-time ultrasound exam. Then learn how to operate the ultrasound machine yourself.

22. Code Breakers

Lean how bioinformatics (the interdisciplinary field that combines concepts from biology and computer science) unlocks DNA's identity.

23. Getting Down To the 'f-root' Of It All

Explore the process of extracting DNA from fruit as a starting point into how scientists get to the root of a virus's ability to cause diseases in animals and how they can use it to infiltrate it to stop it from spreading.

24. Energizing Your Life

Take a peek into the science that powers your world through nuclear energy and get your hands on what it takes to work with atoms.