LAB WORK.

FIELD EXPERIENCE.

REAL-WORLD TRAINING WITH PROFESSIONALS.

Gain a head start on your college career.

Westminster STEM Academy

AT A GLANCE

For: High school students entering sophomore year in Fall 2015 through graduating Class of 2015 seniors

When: June 14-18, 2015

Where: Westminster College, Fulton, MO

Fee: \$750 (all-inclusive – curriculum materials, food, housing, and tuition). Bonus – Earn 1-hour college credit when you complete the Westminster STEM Academy (no additional fee).

Founded in 1851, Westminster College in Fulton, MO is one of the top liberal arts colleges in America, according to *U.S.News & World Report, Forbes, The Princeton Review* and more. Westminster ranks in the nation's top 20 "Best Colleges for the Money," according to a 2014 College Factual ranking, in partnership with *USA Today*.

FOR MORE INFORMATION

Dr. Jim Concannon, Associate Professor/Chair of Education Department STEMAcademy@westminster-mo.edu 573-592-5293

> Westminster College 501 Westminster Ave. Fulton, MO 65251-1299

WESTMINSTER STEM ACADEMY

JUNE 14-18, 2015





Do you love finding out how things work? Does science fascinate you?

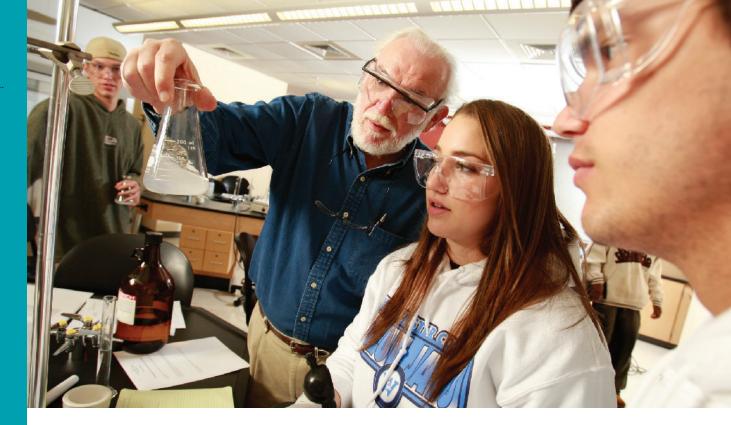
- Explore how physics, environmental science, mathematics, and chemistry impact your daily life and the entire world.
- Work to solve problems, and engage in project-based learning.
- Learn with dynamic faculty.
- Work as a professional in the field.
- Earn college credit.
- Start your research career with hands-on experience.
- Have fun! Each night, enjoy fun and creative activities. We'll even show you how to tie-dye your own lab coat!

Research Areas to be Explored

- Field ecology
- Genetics
- Chemistry
- Paleontology
- Biology

- Biochemistry
- Physics
- Math
- Environmental Science





4 days, 8 labs. Including . . .

From medicine to toothbrush bristles, how do chemists meet the world's needs, but stay environmentally responsible? Learn how to make substances such as nylon and aspirin while learning about green chemistry.

Want to understand how technicians use genetic evidence in your favorite TV crime drama? Delve into the mysteries of inheritance, investigate DNA, and learn modern genetics techniques and concepts.

Power up with electrochemistry! Learn more about electrochemical processes by exploring how we get electricity from chemical reactions.

From Asian carp to feral pigs to the West Nile virus, invasive species spread aggressively and pose a real threat to native wildlife. Investigate how fast an invasive species spreads.

Ancient detective work. Using rock and fossil clues, paleontologists make new discoveries every year about some of the most unique and amazing organisms to have ever lived. Learn how fossil organisms are used to interpret past life.

3, 2, 1 — Blast Off! Build and launch rockets, investigating engineering design and using elastic potential and kinetic energy. Inquiry-based rocket activities and explorations.