

2024 Summer Science Academy

Center for the Advancement of STEM Education at Bridgewater State University



Looking for a hands-on adventure this summer?

Interested in exploring a career in the sciences?

The Summer Science Academy offers one-week science sessions for students entering grades 7- 9 or 10-12 in the fall of 2024. Students will work as scientists and conduct hands-on investigations in their selected program. This summer, topics include animal biotechnology, criminal science, and investigations into human body systems and medical careers. Students will have the opportunity to use the tools found in state-of-the-art research facilities and learn techniques used by real scientists and researchers.

Session	Date	Time	Grade (Fall, 24)
Avoiding a Campus CATastrophe	July 8-12, 2024	8:30AM to 2:30PM	Grades 7-9
Forensics Institute of Bridgewater	July 15-19, 2024	8:30AM to 2:30PM	Grades 7-9
The Human Body from a Medical Mindset	July 8-12 or July 15-19, 2024	8:30AM to 2:30PM	Grades 10-12

For additional information including discounts and scholarships,
please visit: <https://www.bridgew.edu/center/case/science-academy>



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Avoiding a Campus CATastrophe

Taught by: Jim Perry

Unleashing Curiosity: Where Science Meets the Purr-suit of Knowledge. There has been an influx of stray cats on a local college campus. We need your help to assess the health of our feline friends and design shelters to keep them safe. Junior scientists in this program will assist the laboratory staff from our local rescue organization in testing, diagnosing, and aiding these curious cats. Using biotechnology procedures, veterinary assessments, and critical thinking skills, junior scientists will become a vital part of our team. In addition, they will design and engineer cat shelters for the protection of this feline population thus avoiding a potential CATastrophe.

Please Note: No actual cats will be present or utilized during this experience.

Forensics Institute of Bridgewater

Taught by: Kathy Spicer

Have you ever watched Crime Scene Investigators and wondered what really happens to the evidence at a crime scene and how that evidence is used to solve the crime? Join us in a week-long adventure into the life of a crime scene analyst! Working with Senior Scientists, you will learn how to collect and analyze fingerprints from a simulated crime scene, perform blood type analysis and analyze DNA "fingerprints." At the end of the week, you will present your findings as an expert crime scene technician to our "jury" so they can determine if your lab analysis and scientific evidence is sufficient.

The Human Body from a Medical Mindset

Session 1 Taught by: Erin McCoy/Session 2 Taught by: TBD

Are you a high school student considering a career in the medical field? Join us for this week-long investigation into human body systems. Get a feel for what it is like to be a surgeon, a nurse, a researcher, or a technician (just to name a few). Practice suture techniques, explore the heart through dissection, and diagnose illness using electrophoresis, microscopy, or culture. Information about medical careers, including "a day in the life of a medical student," will be discussed.