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MCDANIEL
COLLEGE

Summer..... SCIENCE ACADEMY

for amazing high school students

2018 Course Topics

Forensic Science • Zombie Science

Marine Science • Cooking Science

Real-World Physical Science

Pre-Health Science • Environmental Science

2018 Session Schedule

SESSION 1 • June 18-22

SESSION 3 • July 9-13

SESSION 2 • June 25-29



McDaniel College • 2 College Hill • Westminster, MD 21157

located 30 miles northwest of Baltimore, in north central Maryland, south of Gettysburg, Pennsylvania, and within easy reach of Washington, DC.

for more info visit www.summerscienceacademy.com



Information

Eligibility - High school 9th - 12th grade.

Registration - Students will be accepted on a first-come -first-served basis.

Contact- 410-857-2482
ssa@mcdaniel.edu

Types of Enrollment

Resident \$925 - Resident fees cover instruction, laboratory supplies, lodging (5 nights) and meals. A camp assistant will be on hand to help participants adjust to a college setting and living on campus.

Commuter \$580 - Commuter fees cover instruction, laboratory supplies, and lunch (5 days).

COURSE DESCRIPTIONS

Forensic Science (All Sessions)

The topics covered in this course include eye-witness testimony, drug analysis, DNA, hair, forensic anthropology and entomology, and ballistics investigation. Come see if you have what it takes to figure out who dunnit!

Real-World Physical Science Lab (Session 1)

Topics covered include spectroscopy, Nuclear Magnetic Resonance, chromatograph, mass spectrometry, and more. Techniques are applied to interesting real world problems to get hands-on experience using state-of-the art laboratory equipment.

Pre-Health Science: How the Heart Works (Session 1)

In this course students will explore how the heart works through discussion and hands-on activities including measuring blood pressure and detecting the electrical activity of the heart. This course is open to all students, but is particularly aimed at student thinking about a future career in health (nurse/physical therapist/doctor/trainer/pharmacist).

Cooking Science (Session 2)

We will indulge your two most chemically related senses – smell and taste – in a gastronomical yet scientific journey. Through examples of food experimentation, you will gain a meaningful understanding of the depth and breadth of the subject that is Cooking Science.

Environmental Science (Session 2)

Through field trips, laboratories, and discussions, students will investigate a variety of current environmental issues: water, life cycle analysis, climate change, food, and sustainable development. We will discuss environmental careers and contribute to a restoration project. Come prepared to be outside, visit sites, and expand your understanding of our relationship with the natural world!

Pre-Health Science: Exploring Chronic Diseases (Session 2)

High blood pressure, obesity, and diabetes are a few of the common, chronic diseases affecting millions of Americans. Students will explore risk factors, diagnosis, treatment, and prevention. This course is open to all students, but is particularly aimed at student thinking about a future career in health (nurse/physical therapist/doctor/trainer/pharmacist).

Marine Science (Session 3)

Students in this hands-on course will use laboratory experiments and fieldwork to explore topics in marine ecology and oceanography. The course includes a field trip on a working oceanographic research vessel.

Zombie Science (Session 3)

The pop culture phenomenon of zombies will be used as a medium for studying a wide variety of topics in the disciplines of psychology, neuroscience, physics, biology, physiology, and mathematics. Come find out if you could survive!



to register visit www.summerscienceacademy.com