Summer Science Camps!

Come join us for a week or more of hands-on, thought-provoking, science fun!

All classes will be held on campus in the Clemson University Life Sciences Outreach Center, G-26 Jordan Hall. Parents, grandparents or guardians are welcome to enroll and participate!

Grade (2015-2016)

5\textsuperscript{th} – 7\textsuperscript{th} Summer Science Days I
5\textsuperscript{th} – 7\textsuperscript{th} Summer Science Days II
7\textsuperscript{th} – 9\textsuperscript{th} DNA and Cells
9\textsuperscript{th} – 12\textsuperscript{th} Biotechnology, Health & Society

Camp descriptions on back ➔
See www.clemson.edu/culsoc for complete details!

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Please refer to the website for detailed descriptions of each camp and to register, www.clemson.edu/culsoc.

Exact content of camp is subject to change.

- Instructor: Professor Vicki Corbin with other Clemson University personnel
- Parents/grandparents/guardians are welcome to enroll and participate!
- Drop off/pick up in G-26 Jordan Hall, Clemson University
- Camps will close when filled or 10 days before the first day of camp
- 10 participant minimum. Fees will be refunded only if the session does not run.
- Labs for younger students or special groups may be arranged. Contact Vicki Corbin to discuss, vcorbin@clemson.edu, 785/766-1923.

Summer Science Days I: This action-packed, hands-on camp covers a fascinating array of biology, physics and chemistry topics for rising 5th through 7th graders. Summer Science Days I and II do not need to be taken in order or together.

June 16-18 or July 14-16, Tues-Thurs (9:00am-12:15pm)
Early bird fee: $70. Fee after May 22: $80.
  - Day 1: Fun with Mutants! Learn about DNA structure and function, build DNA models and see how mutations lead to new traits or diseases.
  - Day 2: Play with Your Food! Learn amazing chemical and physical properties of food through a fun series of (sometimes tasty) experiments.
  - Day 3: Become a Crime Scene Investigator! Use modern crime scene technology to analyze data from a crime scene, including fingerprints, “blood” samples and DNA evidence.

Summer Science Days II: This action-packed, hands-on camp covers a fun and fascinating array of biology and chemistry topics for rising 5th through 7th graders. Summer Science Days I and II do not need to be taken in order or together.

July 7-9 or August 4-6, Tues-Thurs (9:00am-12:15pm)
Early bird fee: $70. Fee after May 22: $80.
  - Day 1: Fun Food Chemistry! Learn the biochemistry of food and digestion and use chemistry to transform food into fun non-foods: bouncy balls, slime and other playthings!
  - Day 2: The Microscopic World of Cells - Look at cells using microscopes and learn about cell structures, build edible cell models and learn how microscopes work by making your own!
  - Day 3: Microbial Marvels - Microorganisms are everywhere – including in and on us! Learn about different types and how they affect human health.

DNA & Cells – The Building Blocks of Life: This hands-on, active camp is for rising 7th through 9th graders who are interested in the molecular and cellular basis of life, human health and medicine.

June 22-26 or July 27-31, Mon-Fri (9:00am-12:30pm)
Early bird fee: $120. Fee after May 22: $130.
  - Day 1: Diving into DNA – Build DNA models, isolate DNA, learn how DNA is used to solve crimes and medical mysteries
  - Day 2: More Fun with Mutants – Learn how errors in the genetic code arise and lead to new traits or diseases
  - Day 3: The Smallest Living Things – Learn how microscopes work by making your own, build cell models, study viruses and prions
  - Day 4: Red Blood Cells & Sickle Cell Disease – Follow medical explorers to unravel the cause of this debilitating disease
  - Day 5: Computational Biology – Use computers to interpret DNA sequences and discover how genes go extinct

Biotechnology, Health and Society: This is a hands-on, thought-provoking camp for rising 9th -12th graders genuinely interested in biotechnology and the ways it is changing society.

July 20-24, Mon-Fri (9:30am -2:30pm)
  - Day 1: The Human Genome Project & Personalized Medicine – Analyze your DNA and correlate with your ability to taste
  - Day 2: Criminal Justice & DNA – Learn how DNA evidence is used to prosecute and to exonerate people accused of crimes
  - Day 3: Genetically Modified Organisms as Foods & Medicine - Learn how GMO organisms are made & used, pros & cons
  - Day 4: Eating & Farming for Healthy Ecosystems - Learn how our food and farming choices influences the ecosystem
  - Day 5: Brain Mapping, Neuroscience & Brain Diseases - Learn how nervous systems work and how injury and disease can wreak havoc on our brains