

Summer Science Institute *Online*

For Rising 10th-12th Graders

Hands-On, Kit-Based Distance Science Experience Led by Live Instructors



How does distance learning camp work?

Your child will attend live classes on their computer and work through experimentation with the kit we provide!

SSI-I

Fundamentals of Cellular and Molecular Biology

Dates: July 6 - 10, 2020

SSI-II:

Advanced Principals of Immunology, Microbiology and Biotechnology

Dates: July 20 - 24, 2020

***Learn How to Apply Visit:
www.uab.edu/cord**



See the back for additional details and descriptions!

SSI-I: Fundamentals of Cellular and Molecular Biology

Participants will receive an at-home laboratory kit that will include the supplies and equipment to conduct instructor guided experimentation at home. "SSI-I Online" will be a week-long course that will provide instruction covering the fundamentals of cellular and molecular biology and biotechnology using both hands on and virtually simulated labs. Research projects and experimentation include:

- ◆ Chemical methods to differentiate bacteria
- ◆ Identifying the genetic basis of brain disorders
- ◆ Extraction of genomic DNA
- ◆ Seminars and interactive discussions with UAB, federally funded research faculty
- ◆ Simulate drug discovery for flu prevention, COVID-19 and much more!

SSI I will be open to students who have finished 9th, 10th and 11th grade.

Session Offered: July 6 - 10, 2020
Session Times: 9:00am to noon daily
Tuition Costs: \$200

SSI-II: Advanced Principles of Immunology, Microbiology and Biotechnology

Participants will receive an at-home laboratory kit that will include the supplies and equipment to conduct instructor guided experimentation at home. "SSI-II Online" will be a week-long course that will dive into advanced principles and techniques of microbiology, immunology and biotechnology using both hands on and virtually simulated labs. Research projects and experimentation include:

- ◆ Genetic bacterial transformation of plasmids
- ◆ Determine blood types with simulated samples
- ◆ Testing for viral antigens and disease diagnosis
- ◆ Seminars and interactive discussions with expert researchers
- ◆ A look into vision science and much more!

This course is open to students who have completed grades 10th and 11th and preferably have completed SSI-I (note: both SSI I and II can be taken in the same summer). We hope to be able to offer follow-up laboratory sessions at UAB-CORD, for both SSI-I and SSI-II either in late July or Saturdays in the fall. These sessions will allow SSI-Online participants to practice their skills in a laboratory setting.

Session Offered: July 20 - 24, 2020
Session Times: 9:00am to noon daily
Tuition Costs: \$250

Internet connection with a webcam and a microphone are required to participate in SSI-I and SSI-II online. All other supplies needed for the program will be sent to the participants after completing registration.



Contact Us:
www.uab.edu/cord
Email: ccord@uab.edu
Phone: (205) 934-5171

