



Summer Science Institute

Sponsored by the College of Sciences and Mathematics

What is the Summer Science Institute?

The Summer Science Institute at Auburn University is a summer science program for rising 11th-12th grade students with a high aptitude and interest in the fields of science and math. The program, supported by the College of Sciences and Mathematics at Auburn University, partners students with experienced AU Science and Math research faculty to explore topics more advanced than what is typically taught in a public or private high school environment.

What is the application process?

Applicants must reside in Alabama or Georgia. A limited number of students will be chosen each year on an academically competitive basis. Applications are available on line (www.auburn.edu/cosam/ssi) each fall and are due mid-February. Applicants will be notified on or before March 31st of acceptance into the program

What is the cost?

There is a \$1,820 registration fee per student for program administration. However, the Summer Science Institute is offered at NO COST to its participants due to registration fees being financed by grants and other sponsoring organizations at Auburn University

When is the Summer Science Institute?

The program typically occurs for 6 consecutive days (Sunday through Saturday) during the month of June.

What is the schedule for the Summer Science Institute?

Accepted participants reside in residential hall on the Auburn University campus and adhere to the following daily schedule.

Daily Schedule

8:30 am – 11:30 am Morning Instructional Period
11:30 am – 1:30 pm On-Campus Tour/Speaker
1:30 pm – 4:30 pm Afternoon Instructional Period
4:45 pm – 7:00 pm Dinner and downtime in the residential halls
7:00 pm – 9:30 pm Evening Activity
9:30 pm – 10:15 pm Downtime at the dorms
10:30 pm Lights Out!

Who is designing and facilitating this program?

Dr. Allen Landers (Carr Professor of Physics) and Mary Lou Ewald (Director, COSAM Outreach) work with faculty representatives from each of the 5 departments that comprise the College of Sciences and Mathematics at AU to design

a truly unique and advanced educational experience for SSI participants. Dr. Landers' research and outreach expertise in combination with the extensive experience in program development of our science outreach educators result in a program that is like no other in the Southeast.

Who will be supervising the students?

During the day, students will be supervised by faculty members and graduate students in the college. During the evening, students will be supervised by undergraduate and graduate students in the sciences/mathematics.

All Summer Science Institute instructors, counselors, and staff have undergone a rigorous application and screening process following Auburn University camp personnel policies. All personnel have extensive experience working with K-12 children and have undergone a Federal background check. Students will be supervised 24-hours/day.

Which members of the AU faculty lead the different instructional sessions?

- Dr. Rafael Bernardi-Department of Physics
- Dr. Ming Chen-Department of Chemistry and Biochemistry
- Dr. Ryan Comes – Department of Physics
- Dr. Byron Farnum-Department of Chemistry and Biochemistry
- Dr. Nicholas Giordano – Department of Physics
- Dr. Rita Graze-Department of Biological Sciences
- Dr. Ahmed Hamid-Department of Chemistry and Biochemistry
- Dr. Phuong Hoang-Department of Mathematics and Statistics
- Dr. Rashad Karimov-Department of Chemistry and Biochemistry
- Dr. Marcelo Kuroda – Department of Physics
- Dr. Allen Landers- Carr Professor of Physics, Department of Physics
- Dr. Evangelos Miliordos-Department of Chemistry and Biochemistry
- Dr. Konrad Patkowski – Department of Chemistry and Biochemistry
- Dr. Aaron Rashotte - Department of Biological Sciences
- Dr. Beth Schwartz-Department of Biological Sciences
- Dr. Stephanie Shepherd – Department of Geosciences
- Dr. Haruka Wada-Department of Biological Sciences
- Dr. Wei Zhan-Department of Chemistry and Biochemistry
- Dr. Hong Zhao-Department of Physics

What types of activities will students engage in during the instructional sessions?

Topics from each of the 5 departments that comprise the College of Sciences and Mathematics (Geosciences, Chemistry/Biochemistry, Physics, Biological Sciences, Mathematics/Statistics) will be addressed during the Institute.

What makes this program different from other science programs?

The Summer Science Institute is not a science camp. It is an institute for highly motivated high school juniors and seniors with a serious interest in pursuing a math, science, or related degree. Students will experience science at the cutting edge level in collaboration with Auburn University's unique faculty and facilities, helping set the stage for advancement in their careers in science or science related fields.

More Information?

Contact Mary Lou Ewald at ewaldml@auburn.edu, or call 334-844-5745 or visit www.auburn.edu/cosam/ssi.

