For Academically-Talented Secondary Students Entering 8th-12th Grade

The Millersville University College of Science and Technology is pleased to sponsor the 32nd Annual Summer Science Training Program (SSTP). The program features intensive student/teacher interaction, advanced-level learning, and research and problem-solving experiences. The topics cover a wide range of academic disciplines in mathematics, science, and technology, providing students with learning opportunities not normally available at the pre-college level. With an emphasis on cooperative learning and intense personal involvement, the courses are stimulating, challenging, and enjoyable. The participants use the fully equipped labs and classroom facilities in the Argires Science Complex.

The Summer Science Training Program is one of four programs designed to stimulate interest in mathematics, science, and technology among academically talented pre-college students. The Glenna Hazeltine Women in Mathematics, Science and Technology Conference and the Math Contest are held annually each spring. The Millersville University Science Lectureship and Competition is an annual fall event that brings many elementary and secondary students to the University to gain exposure to science and career opportunities. The University encourages participation by young women, minorities, and other under-represented groups.
PROGRAM SCHEDULE

Two tracks consist of a series of three-hour workshops taught by faculty in the College of Science and Technology. These workshops are open to students entering 8th through 12th grade in the fall of 2018.

All tracks meet Tuesday, Wednesday, and Thursday, 9:00 a.m. to 4:00 p.m. on the following dates: July 10-12 and 17-19. During the final week, the tracks will meet Tuesday and Wednesday, July 24 & 25 from 9:00 a.m. to 3:00 p.m.

HOW TO APPLY

Application forms may be obtained by calling the Dean’s Office, College of Science and Technology, at (717) 871-4292 between the hours of 8:00 a.m. and 4:30 p.m., or downloaded from our web site:

http://www.millersville.edu/sstp/

The three-part application form must be completed by the student (Part I), the student’s guidance counselor (Part II), and a science or mathematics teacher (Part III) of the student. As part of the application process, the student will also be required to write a letter expressing interest in the program.

The student is responsible for assuring that the entire application is submitted by the deadline. Students who have previously participated in the program and who wish to be eligible for this year’s program must re-apply.

Applications may be emailed to: Marianne.Frantz@Millersville.edu


TUITION

A fee of $395 per student will cover supplies and instructional costs (students are responsible for bringing their own lunches). The fee is payable only when the student is accepted into the program.

This program is supported in part by the Office of the Provost and the College of Science and Technology, with additional support from donors. The most recent gift was made in memory of Kenneth G. Williams, a 1949 graduate of Millersville State Teachers College.
TRACKS 1 & 2

Workshop topics may include:

- Amazing Rat
- Battling Germs
- Breathing Mechanics
- Cognition
- Color Formation
- Computer Science Topics
- Corn Snake Genetics
- Disaster Management
- DNA
- Ethics
- Forensic Anthropology
- Fractals
- Game Theory
- Intro to Computers
- Nanotechnology
- Photosynthetic Marvels
- Photovoltaic Cells
- Physical Colors
- Physiological Effects of Alcohol
- Plants and Pigments
- Polymer Chemistry
- Pond Ecology
- Rat Studies
- Respiration
- Sports Medicine
- Statistics
- Teen Brain
- Vision

PAST FACULTY PRESENTERS

- Zachary Barton, MSE., Biology
- Joseph Bushey, Ph.D., Earth Sciences
- Dominique Didier, Ph.D., Biology
- Natalia Dushkina, Ph.D., Physics
- Todd Echterling, M.S., Computer Science
- Henry Fijalkowski, Athletics
- Rachel Fogel, Ph.D., Biology
- Cyril Foray, M.S., Biology
- Shawn Gallagher, Ph.D., Psychology
- Aaron Haines, Ph.D., Biology
- Brent Horton, Ph.D., Biology
- Valbona Hoxha, Ph.D., Biology
- Steven Kennedy, Ph.D., Chemistry
- William Kittleman, Ph.D., Chemistry
- Sharmin Maswood, Ph.D., Biology
- Jeremiah Mbindyo, Ph.D., Chemistry
- Erin Moss, Ph.D., Mathematics
- Michael Nolan, Ph.D., Physics
- Joel Piperberg, Ph.D., Biology
- Jack Sipe, Ph.D., Chemistry
- Rita Smith Wade-El, Ph.D., Psychology
- Cynthia Taylor, Ph.D., Mathematics
- Ryan Wagner, Ph.D., Biology