

Career Academies General Information and Summer Programs

General Information

Middle and high school students will participate in activities that will help them relate their own interests to different career areas while exploring the Career Academies offered in the high schools. Programs will include classes in Architectural Design/Construction, Animation/Graphic Design, Computer Science, Career Research and Development, Health Professions, Teacher Academy, Culinary Science, Cybersecurity, Automotive Technology, Biotechnology and Engineering.

Location

Applications and Research Lab (ARL)
10920 Clarksville Pike • Ellicott City, MD 21042

Dates

June 20-22

Times

8 a.m.-4 p.m.

**No transportation or meals provided.
Students must bring a bagged lunch.**

Registration

Online see www.hcpss.org/summer/ for application form. Must be completed by June 1, 2018.

Tuition

\$175 per student

Before and After Care

Before and after care will be offered from 7-8 a.m. and 4-5 p.m. The price is \$25 per week for a morning or afternoon session OR \$50 for both sessions.

Tuition Reduction and Scholarships

Students may apply for either tuition reduction or scholarships. Application forms may be found online at www.hcpss.org/summer/. An initial payment of no more than 50 percent of the course fee is required at the time of registration. Balance owed is pending review by the Scholarship Committee.

Student Withdrawals and Refunds

A student may request a full refund prior to June 12, 2018. A withdrawal/refund form (found online at www.hcpss.org/summer/) must be completed.

Contact: Sally Long

Phone: 410-313-6629

Email: sally_long@hcpss.org

Enrollment is limited to the first 25 students in each program who complete form with payment.

Career Academies Summer Programs June 20–June 22

Analyze, Design, Build

Entering Grades 7-9 0 Credit

Students will learn the engineering design process and apply this methodical approach to solving real world problems while using a variety of technologies. Electronics, soldering and 3D printing may be included as components of some of the activities.

GG01.E3
Affiliated Academies: Aerospace Engineering: Project Lead the Way (PLTW), Engineering: Project Lead the Way (PLTW), Systems and Project Engineering

The Art of Architecture

Entering Grades 7-9 0 Credit

Students will gain an appreciation for architecture and related fields by creating shapes, forms, and structures using hands-on-model building and 3-D software.

GG01.E7
Affiliated Academy: Architectural Design

Career Research

Entering Grades 7-9 0 Credit

Students will explore careers and develop a plan for their future. This camp is designed to strengthen the students core areas of self-awareness, career exploration, and how to secure their financial future. Camp will include guest speakers, field trips, the Stock Market game and much more!

GG01.E5
Affiliated Academies: Career Research and Development, Academy of Finance

Future Educators Camp

Entering Grades 7-9 0 Credit

Discover your passion to become an Educator at the Future Educators Camp. Explore the world of education through fun activities. Students will create lessons and learn about teaching as a profession.

GG01.E0
Affiliated Academies: Child Development Academy and Teacher Academy

HTML: Web Site Design/Application

Entering Grades 7-9 0 Credit

Students will be introduced to HTML and web design. Students will take the role of web developer and learn how to write basic code that will produce a web page for personal use. Practical applications of web design will be investigated and a capstone project will be presented.

GG01.E10
Affiliated Academy: Computer Science

Let's Get Cooking: Chef's Institute

Entering Grades 7-9 0 Credit

Students will hone their knife skills and food preparation techniques while creating dishes to impress family and friends. Food and kitchen safety, sanitation, and good nutrition will be emphasized.

GG01.E2
Affiliated Academies: Culinary, Hotel and Restaurant Management

Building for The Future

Entering Grades 8-10 0 Credit

Students will learn construction skills and methods that are used by Habitat for Humanity and other community volunteer construction projects.

GG01.E4
Affiliated Academies: Construction, HVAC

Creating Tomorrow's Automotive Technicians

Entering Grades 8-10 0 Credit

Students will learn the automotive trade and some of the basic service and maintenance repair essentials.

GG01.E9
Affiliated Academy: Automotive Technology

Discovering, Diagnosing, and Treating Medical Conditions

Entering Grades 8-10 0 Credit

Students will explore how biotechnology is applied in modern research and medicine to uncover the biological causes of illness, diagnose diseases, and develop drug therapies. This hands-on camp is lab intensive and includes a rat dissection.

GG01.E8
Affiliated Academies: Agricultural Science, Biotechnology, Health Professions

Exploring Cybersecurity

Entering Grades 8-12 0 Credit

Students will learn to apply basic security concepts through gaming, modeling and simulation development, while investigating exciting careers and engaging in hands-on activities related to cryptography, system vulnerabilities, and digital forensics.

GG01.E6
Affiliated Academy: Cybersecurity

Exploring Health Professions

Entering Grades 8-10 0 Credit

Students will explore the wide range of healthcare careers and examine the many fascinating aspects of the human body systems while learning about the prevention and care of illnesses.

GG01.E11
Affiliated Academies: Health Professions, Biotechnology

Graphics for Illustration, Advertising, Animation, and VR

Entering Grades 8-10 0 Credit

Students will design several works of digital art utilizing techniques taught in the ARL Graphic Design and Animation and Interactive Media Academies. Students will create character concept art, design related logos, and advertising using 2D computer illustration software. Students will create objects using 3D Modeling Software and interact with their art using Virtual Reality. Time permitting, students may also get to print their objects, take a related field trip, and put their objects in a pre-programmed gaming simulation (please note, coding is not a part of this experience). A waiver is required for VR use.

GG01.E1
Affiliated Academies: Animation and Interactive Media, Graphic Design