SUMMER YOUTH PROGRAMS

Workforce Development and Continuing Education | Summer 2020

Summer Camps are now ONLINE!
Are you seeking summer activities for youth who will be enrolled in Grades K-12 this fall? Montgomery College Youth ONLINE Programs offer high quality, engaging, learning activities. We have revamped our summer schedule to meet today’s new way of being there for you. Whether your children would benefit from an introduction to a new subject, a way to help determine what they might want to do as a career, new lessons and new friends, study/success strategies, or more about something they know they enjoy, we welcome the opportunity to have them join us this summer—ONLINE!

We have:
- camps for grades 1-12
- camps with approved Student Service Learning (SSL) hours
- camps where you can travel around the world virtually
- camps where you can get expert help on a personal computer programming project
- camps in drawing and digital arts
- camps that will help academically—to fill in the gaps of remote learning, and to prepare them for next year
- camps in interior design, programming, architecture, art, science, engineering, creative writing, reading, comedy and improv, woodworking (yes, really!), circus, study skills, entrepreneurial practice, project management—and much more!

For more information contact:
youthprogramsdirector@montgomerycollege.edu

www.montgomerycollege.edu/youth
240-567-5188
Dear Parents,
Welcome to Montgomery College Youth Programs Summer 2020 version 2.0. Little did we know in September 2019 that we would need to completely scrap our carefully planned schedule and start over. We are grateful that we are able to offer camps online and not have the need to cancel them outright.

Over the past few weeks, instructors and vendors have worked tirelessly to move most of our amazing camps online. They are seasoned teachers and recognize what is developmentally appropriate for students. They are creative and work hard to make sure the camps are packed full of information while still remaining fun. We were unable to move some of our camps online. While this is disappointing, we hope they will be back with us for summer 2021.

When selecting your camp, please keep the following in mind:

- **Online format**: all camps have transitioned to an online format. The specific format is listed in the course descriptions.
- **Materials at home**: some camps need materials at home. We chose materials that were easily available, and hopefully something you already have in-house from your school supply list.
- **Materials provided**: for some camps, materials will need to be picked up. We will have a centralized curb side pickup location for distribution of materials at least a week before the camp begins.
- **Dates**: our original dates of camps were based on the availability of space on the campuses. Because we are online, we no longer have these restrictions, and can offer a longer range of dates. Pay attention to the dates – we are offering camps earlier and later than originally scheduled.
- **Times**: our traditional three-hour camps, or all-day camps have changed. An appropriate length of time for each camp was determined by the instructor with input from the Youth Programs Office. Some of the camps are still all day and include online sessions and time for independent work. Other camps are only an hour long, but online the entire time. Please pay attention to this in the course description.
- **Computer requirements**: all students will need access to technology at home to participate in the online camps. Some camps have specific technical requirements due to the programs used in the camp. This, again, is outlined in the course description.
- **Cost**: we have tried at every level to reduce the price of camps. We understand that this is a time of uncertainty and budgets are strained. Some of our vendors drastically reduced the price of their camps, and we passed the savings on to you.
- **Supervision**: parents, you know your children best. Please select camps that are appropriate for your children.
- **CampDocs**: MC Youth Programs continues to use this platform to gather required information for students. Some of the documents have changed, and some are no longer required. Completion of this information remains mandatory.

We look forward to our virtual summer and are grateful that we get to spend some time with your students. We will miss hearing their voices in the halls, talking to them about their camps during lunch and physically dropping into their sessions – now we will virtually drop into their camps! We are grateful that we can still be a part of your child’s summer.

We are all doing our part to stay well, and to keep the children safe. Please reach out to our office with questions to YouthProgramsDirector@montgomerycollege.edu.

Thank you,
Mary Mukherjee
Senior Program Director
Montgomery College Youth Programs
General Information

Registering Your Student

Use one form for each student.

- Visit www.montgomerycollege.edu/youth
- Make course selection(s)
- Grades listed with each course title indicate the grade of the student during the 2020–2021 school year.
- Complete registration form One (1) per student.
- Be sure to include student’s MC Identification Number. If your student does not have an MC ID number, one will be assigned following registration. This will be the student’s permanent identification number at Montgomery College. You will want to keep it in a safe place.
- Complete all signature lines
- Registrants will be enrolled in the order that registration and payments are received.

We urge you to register as early as possible to avoid disappointment. You will receive acknowledgement of your registration via e-mail and mail within approximately three days. You will receive an e-mail with important information needed to complete the registration and payment process. (Check e-mail AND potential SPAM folder.) You will have up to three (3) business days to complete the payment process.

- All students MUST register a minimum of one (1) week prior to the start of the class.
- Classes Will Be Cancelled If They Are Under-Enrolled.

Residency Policy

The following are general guidelines taken from the College policy on residency for tuition purposes. A complete copy of the policy is available in the Montgomery College Catalog.

- Students attending Montgomery College will pay tuition according to their residency.
- To qualify as a resident of the state of Maryland for tuition purposes, legal domicile must have been maintained for a period not less than three months prior to the first regularly scheduled class.
- Non-Maryland residents pay Out-of-State Fees. (Non-U.S. Citizens: attach a copy of your passport, visa, or permanent resident card.) Non-Maryland residents and Non-U.S. Citizens without a passport, visa, or permanent resident card must pay a $25.00 per course out-of-state fee for youth offerings.

Camp Docs

This year we are transitioning to Camp Docs to maintain all the emergency information, health information, and other camp related forms. This is where you will also find permission forms and handbooks. It is our hope that this will streamline the paperwork required for your child. You will receive an e-mail from campdocs.com with instructions on how to enter this information into the system. You will only enter this information once per child. All required information is required before your child can attend camp.
Cancellation Policy

Courses may be cancelled due to under-enrollment at least five (5) business days prior to the start of course or program. Students will be notified of cancellation by phone or e-mail and a refund will be processed for the total cost of course(s). Refunds will take approximately three (3) weeks to be processed. There are no refunds for scholarship students who do not attend if they have not notified us at least two (2) weeks in advance of the specific camp for which the scholarship has been awarded.

Communication

Youth Programs uses e-mail to communicate with the parents of registered students about specific program information. Please be sure your e-mail address is current and that you check it regularly. Until you know that you can receive our e-mail notifications, also check your SPAM folder. Parents without an e-mail address will receive information by phone and/or mail.

Class Transfer and/or Refund Policy: Youth Programs Only

Notice: New Summer Youth Transfer or Withdrawal Policies! Be advised that there have been substantial changes to our refund policies for withdrawing/transferring students from a Youth Programs course/camp within 32 days of the start date of the class. These Youth refund policies differ from and supersede refund policies for all other non-Youth classes. For a complete listing of the transfer and drop/withdrawal policy and important dates visit: www.montgomerycollege.edu/youth.

Transfer/Refund Requests

Please contact the Youth Programs office via e-mail: YouthProgramsDirector@montgomerycollege.edu to transfer to a different class/date. The transfer policy is listed below.

- First transfer is done without charge if received no later than 12 p.m. at least two weeks before the Friday preceding the start of the class.
- Second and each additional transfer will be charged $20.00 if received by 12 p.m., at least two weeks before the Friday preceding the start of the class.
- No transfers will be permitted after 12 p.m., less than two weeks before the Friday preceding the start of the class unless the class is cancelled by Montgomery College.

Drop/Withdrawal Requests

Please contact the Youth Programs office via e-mail: YouthProgramsDirector@montgomerycollege.edu to withdraw from a class. The refund policy is listed below.

- Camp sessions dropped 4 weeks or more prior to the start date of the class will receive a 100% refund of the total fee. Refunds may take 3–5 days to be refunded to the credit card.
- Camp sessions dropped within 2–3 weeks of the start date will receive a 50% refund of the total fee.
- Camp sessions dropped less than 2 weeks before the start date of the class will NOT receive a refund.
- Please note: If you register for a class less than 4 weeks before the beginning of the session, the above applies.
Disability Support Services
Montgomery College Youth Programs is committed to providing accessible education and a supportive learning environment for all students. To help us meet this goal, the college offers support through the WDCE Disability Support Services Office. Parents submit pertinent information via campdocs.com. After completing the appropriate information on campdocs.com, parents are to contact counselor Natalie Martinez at Natalie.martinez@montgomerycollege.edu or 240-567-4118 at least two weeks before the start of the program to arrange for reasonable accommodations. MC does not provide medical assistants or care attendants.

Online Behavior
The Participant agrees to:

• Participate in the digital environment to the same standard as a physical environment, including participating when called on, listening attentively, and minimizing distractions to others.
• Not share links or passwords for Program meetings or content.
• Challenge themselves to engage, be present and learn.
• Complete assigned projects on time.
• Request help if needed.
• Mute when not speaking and there is competing background noise.
• Dress appropriately when on video.
• Not take inappropriate screenshots or images.
• Assume good intentions and have fun!

The following may result in being dismissed from the program:

• Bullying, harassing or using derogatory language or gestures towards another person or group of people.
• Being under the influence of alcohol or drugs.
• Repeated absences or failure to meet agreed upon program work requirements.
• Violation of College code, policy, or regulation.

Contributions to Our Youth Scholarship Fund
Take advantage of this easy way to make a tax-deductible contribution to the College’s Youth Scholarship Fund by writing an amount on the Registration Form. You will receive a donation receipt from the Montgomery College Foundation acknowledging your contribution. Remember your contribution helps children who would not otherwise have access to these challenging and exciting learning opportunities.

Student Service Learning Hours
Student Service Learning (SSL) hours are earned in some of our sessions. Approval for SSL hours is reflected in the course description for approved camps. For these camps, the SSL form will be printed on the back of the certificate given to students on the last day. To receive all approved SSL hours for the camp, the student must have 100% attendance.
How to Read a Course Description

Courses marked with GT are for Gifted and Talented students and require additional signatures for enrollment.

For further information please contact Youth Programs at 240-567-7264 or 240-567-7917 or access the Montgomery College Youth Programs website: www.montgomerycollege.edu/youth.

M = Monday     T = Tuesday     W = Wednesday    R = Thursday     F = Friday     GT = Gifted & Talented

Course Title
Dive Into Summer Writing

Course Description
This is a fun-filled writing camp that will help increase your vocabulary and aid in composition writing. Learn basic grammar, write in daily journals, create a book review and play language arts hands-on games.

Instructor: Natalie Evans

Course Number Number of Sessions
Course: YOU792 4 Sessions

Course Tuition and Fee
$110 + $30 fee = $190; Non-Md. Residents add $25

Campus Location Online

Grades
Grades 1–2

CRN # Days Dates Time
CRN#: 15587 M,T,W,R 6/29–7/2 9 a.m.–12 p.m.
Advanced Placement Readiness

Prepare for taking advanced placement courses. In small groups, analyze articles, essay prompts, and sample responses. Learn to support your opinions by using text and data to accomplish the task. Use logical thinking, enhance your awareness of the structure of your arguments and avoid fallacies in reasoning. Use various technologies and peer created strategies to practice time management skills. Learn ways to use calendars to make more effective use of your time. Add rhetorical strategies to your repertoire of testing skills and improve your understanding of standards found in advanced placement courses. Practice these skills to heighten your comfort with the testing situation. Instructor: Jenn Bauer

Campers must provide these supplies (not provided by MC): Basic supplies including paper and pencil. Information will be available for downloading by the students. Access to a computer (iPad, Chromebook) with webcam.

Online format: Live instruction via zoom.

Course: YOU466  
5 Sessions, Online
$145 = $30 fee = $175; Non-Md. residents add $25

Grades 9–12 (GT)
CRN#: 15574  M,T,W,R,F  7/20–7/24  9 a.m. – 12 p.m.

Awesome ASL

American Sign Language is used by many people in the US and has become a very popular language to study in schools. ASL is a language of the hands, face and body, and is fun and easy to learn! In this camp, you will spend five days learning the basics of American Sign Language, including gestures, facial expressions, and the basic components of a sign. We will cover vocabulary such as family, colors, animals, sports, numbers, and fingerspelling as well as basic aspects of Deaf culture. By the end of camp, you will be able to introduce yourself and hold basic conversations in sign language. Instructor: Emily Mellgren

Campers must provide these supplies (not provided by MC): No special supplies required.

Online format: Live instruction via Zoom.

Course: YTH257  
5 Sessions, Online
$100 + $20 fee = $120; Non-Md. residents add $25

Grades 6–8
CRN#: 16599  M,T,W,R,F  7/6–7/10  1 - 3 p.m.
**Biotechnology and Diversity**

Biotechnology and diversity of organizations go hand in hand. Biotechnology allows scientists to organize animals into patterns and categories and identify/classify them, whether the animal is known or unknown. In recent times, biotechnology techniques have enabled crime-solving, paternity testing, cloning of cells leading to reproduction with male gametes, production of insulin for diabetics, and growth factors. In this camp, you will master DNA extraction, paternity identification, solve problems and bone mysteries, master microscope uses and care, discover the various organisms that share our planet, and develop your critical thinking ability and skills and study world cultures through video workshops. Instructor: Samantha Cruz

**Campers must provide these supplies (not provided by MC):** Computer, internet access, paper, pencils, strawberries, dish soap, salt, water and rubbing alcohol.

**Online format:** Prerecorded and/or direct instruction will be provided for the first hour of camp. The students will work independently on an assignment. The camp will come back together at 3 pm to discuss the results of the student’s work.

**Course:** YTH221  3 Sessions, Online

$90 + $20 fee = $110; Non-Md. residents add $25

**Grades 6-12**

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<td>8/3–8/7</td>
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**Chin Up, Girl!**

Young STRONG ladies...discover your voice, what you stand for, what you believe in, and what truly makes you happy. Build confidence through self-expression and personal connections. Learn strategies to ease school stress, embrace leadership, and promote healthy friendships. Build mental and physical strength by exercising the mind and body: learn yoga, dance, aerobics, and group meditation alongside the Instructor: Natalie Evans, a certified personal trainer, dance teacher, and CrossFit coach, who will motivate you to keep your chin up, girl!

**Campers must provide these supplies (not provided by MC):** Basic supplies including paper, pencil, colored pencils, markers, comfortable clothing and sneakers. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam.

**Online format:** Live instruction via zoom.

**Course:** YOU476  5 Sessions, Online

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**

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**Coding with Kodable**

This course will introduce you to object based programming by learning to read, modify and write scripts to change what happens in JavaScript programs. You will learn fun ways to creatively code by learning core concepts in computer science and writing your very own script. By the end of the camp, you will have learned and designed a project of your own. Instructor: Enitan Okusanya

Campers must provide these supplies (not provided by MC): A computer, strong WIFI access, access to Kodable (Kodable.com).

Online format: Live instruction via Zoom. Students may also access codeh online.

**Course:** YTH258  
**10 Sessions, Online**

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 3–5**

CRN#: 16600  

**College Bound High School Students**

Our summer College Bound Readiness Program for high school students is designed to prepare you for that all-important next step. Paving the way for successful college/career readiness requires that you gain valuable knowledge on researching majors, financial aid options and processes, need-based and academic/merit scholarships, résumés, SAT/ACT/ALEKS tests and testing, the college admissions process, meeting deadlines, time management and more. Our goals are to help you and your family prepare for success while you are in high school and even afterwards. The College Readiness Summer Program is designed to enhance your skills in high school and get you ready for new challenges in college. You will increase your ability to think critically, communicate confidently, and prepare to meet deadlines. Instructor: Tammy Patterson

Campers must provide these supplies (not provided by MC): Chromebook or computer, paper and pencil.

Online format: live instruction will be provided for the first hour, independent work assigned for the second hour, and a review during live instruction for the third hour. Online instruction via Zoom.

**Course:** YTH222  
**5 Sessions, Online**

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 9–12**

CRN#: 16492  
M,T,W,R,F  7/6–7/10  1 – 4 p.m.
**College Readiness Begins in Middle School**

Middle School is an important time for early postsecondary planning and educators recommend that you begin planning for college as early as sixth grade. This College Readiness course will play a key role in guiding early preparation by providing college and career planning information and helping you through the many steps in postsecondary planning. You will be introduced to setting education goals, careers and majors, researching colleges/universities, exploring the college admissions process and applications, financial aid/scholarships, career guest speakers, virtual campus tours, résumés and more. Instructor: Tammy Patterson

Campers must provide these supplies (not provided by MC): Chromebook or computer, paper and pencil.

**Online format:** live instruction will be provided for the first hour, independent work assigned for the second hour, and a review during live instruction for the third hour. Online instruction via Zoom.

**Course:** YTH223  5 Sessions, Online

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16493    M,T,W,R,F    7/20–7/24    1 – 4 p.m..

**Comedy, Improv and Playwriting Camp**

Improvisation uses teamwork, trust, acceptance of others, and a “Yes, and...” attitude. These skills not only apply to life, but also build character, creativity, and confidence. So get wacky, play exciting games, collaborate online with friends, and learn the secrets behind great improv and comedic writing. Use your newfound skills to write a play with your fellow campers. Receive feedback and guidance every step of the way. Instructor: Natalie Evans

Campers must provide these supplies (not provided by MC): Basic supplies including paper and pencil. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam.

**Online format:** Live instruction via zoom.

**Course:** YTH224  5 Sessions, Online

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16494    M,T,W,R,F    7/6–7/10    1–4 p.m.
**Computer Programming 1**

Use the MIT-developed programming language, Scratch, to investigate the foundations of computer programming. Through the creation of a variety of applications and games, you will learn essential common programming structures that can be applied to any future languages that you learn. An emphasis is placed on balancing rigor and fun, and you will have many opportunities to flex your creative muscles in the creation of your programs. By the end of camp, you will design a large-scale program of your own, and have the opportunity to share your application with the outside world over the Internet! Instructor: David Hill

**Campers must provide these supplies (not provided by MC):** A PC/Laptop Windows 7 or later with internet access and a webcam. A free Scratch account from scratch.mit.edu will be set up on the first day of camp.

**Online format:** The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning, and evening project. Instruction on new topic. Provide practice lessons for the day and review examples. Students work independently until noon. From 12pm – 12:45 pm, help sessions online via zoom. Progress will be monitored, and additional assignments provided as applicable. From 3pm – 4 pm, review practice lessons. Each evening a short assignment will be given to ensure understanding of the material. This assignment will not take more than an hour to complete.

**Course: YTH225 10 Sessions, Online**

$490 + $30 = $520; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16495 M,T,W,R,F 7/6–7/17 9 a.m.–4 p.m.

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**Computer Programming 2**

Use the programming language, Visual Basic, to create a variety of applications and games, building on the foundational tools of programming introduced in Computer Programming 1. Learn the organizational advantages to using a visual programming language and begin to write your own code rather than dragging and dropping commands as you did in Scratch. Learn to deal with the syntax errors that this new freedom creates and move on to explore the large ‘toolbox’ that Visual Basic provides its programmers. Emphasis is placed on creating applications that solve real-world programming problems, and you will have the opportunity to create a large-scale game or application of your own to complete the class. **Prerequisite: Computer Programming 1 or Algebra I.** Instructor: David Hill

**Campers must provide these supplies (not provided by MC):** PC/Laptop with Visual Studio 2019 (or higher) edition with .NET development kit installed (free from Microsoft. [https://visualstudio.microsoft.com/downloads/](https://visualstudio.microsoft.com/downloads/)) and a webcam with internet access.

**Online format:** The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning, and evening project. Instruction on new topic. Provide practice lessons for the day and review examples. Students work independently until noon. From 12pm – 12:45 pm, help sessions online via zoom. Progress will be monitored, and additional assignments provided as applicable. From 3pm – 4 pm, review practice lessons. Each evening a short assignment will be given to ensure understanding of the material. This assignment will not take more than an hour to complete.

**Course: YTH226 10 Sessions, Online**

$490 + $30 fee = $520; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16496 M,T,W,R,F 7/20–7/31 9 a.m.–4 p.m.
**Computer Programming 3—Independent Study**

Are you independently minded, and often working on personal programming projects? Do you sometimes get stuck or frustrated, and struggle to use online resources to develop your skills further? Do you have the basics of Scratch or Visual basics down, and want to create (or enhance) a large-scale project with professional support? In this brand-new course, you can develop your programs with extensive teacher attention. Programming skills will be reinforced, and the product development cycle will be discussed as you take your work to the next level.

As openings are limited to ensure that you receive a high level of teacher time, we ask that you submit an application paragraph or two describing the program that you want to create and which language you are using to create it (Scratch or Visual Basic). The application paragraph should be e-mailed to:
youthprogramsdirector@montgomerycollege.edu. Instructor: David Hill

**Campers must provide these supplies (not provided by MC):** PC/Laptop with Windows 7 or later, a webcam with internet access, along with the coding method that the student feels the most comfortable using for their project (should be installed a ready to use).

**Online format:** The instructor will start the day working with the students. The students will then work on their project independently. The instructor will check in at mid-day and at the end of the day. The times will depend on the student’s needs. The student’s individual needs will be addressed in this independent study course.

**Course: YTH092**
5 Sessions, Online
$275 + $50 fee = $325; Non-Md. residents add $25

**Grades 9–12 (other grades accepted by Instructor permission)**

CRN#: 15532 M,T,W,R,F
8/3–8/7
9 a.m.–3 p.m.
Creating Charitable Discussions: The Psychology of Conversation

The landscape of the United States seems more polarized than ever across many differing hot button topics. In a world of two second sound bite arguments, political pundits, and rhetorical strategies to obtain points rather than the truth, some wonder how it is possible to have conversations amidst a diversity of opinions. How is it that we create a culture of charitable discussions but also to evaluate claims critically? How do we engage in conversation without the trappings of name-calling or shouting? This class attempts to navigate this tightrope and digs deeper into the human ego, its insecurities, and why it is the case that progress cannot be made in the key issues that concern us most. This class will cover an introduction to the psychology of conversation, methods of interviewing and questioning, common errors in logic and reasoning, and research skills related to hot-button topics. Learning methods and practices for creating and engaging in constructive conversations is crucial for increasing community health and cooperation. By the end of the course, you will have produced a fact sheet which details an unbiased snapshot of the issue and the different perspectives associated with it. Additionally, you will create a brochure of the topic, which acts as a guide to help facilitate constructive conversations. **MCPS has approved this camp session for 10 Student Service Learning (SSL) hours.**

Instructor: Paul Kio

Campers must provide these supplies (not provided by MC): Access to a google account (not connected to a school system such as MCPS), colored pencils, paper, scissors and a device that supports online learning (iPad, Chromebook, laptop)

Online format: Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online sessions.

**Course: YTH155 5 Sessions, Online**

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**

CRN#: 15691  M,T,W,R,F  7/13-7/17  1 - 4  p.m.

CRN#: 15692  M,T,W,R,F  7/20-7/24  9 a.m. – 12 p.m.
Designing a Room and More: Hands on Interior Design

Design is everywhere! Explore designing a room with hands-on interior design. This class is a project-based course that allows you to become a spatial problem solver and help develop design solutions with your peers. You will create room designs through color interpretations, elements of design, and interviewing skills. This is a fast-paced “crash course” in interior design where technical knowledge is applicable to various design fields. This course will also provide an overview of what is expected in the design field. We will discuss current energy innovations, Smart Home technology, Universal design, green design, and current trends in the industry.

Instructor: Julie Priddy ASID, CMKBD, NCIDQ, MC faculty.

Campers must provide these supplies (not provided by MC): A computer with webcam and microphone capability. Access to the internet and a google account.

Online format: The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning and instruction on new topic. Provide an assignment for independent work until noon. From 12:30 pm – 1:30 pm, mid-day session where work will be reviewed through collaboration with fellow students. From 1:30 pm – 3 pm, independent assignment given. Wrap up sessions from 3pm – 4 pm, review the day’s projects and prepare for the next day. Information will be shared through BlackBoard, with online session through zoom.

Course: YTH227 5 Sessions, Online
$300 + $50 = $350; Non-Md. residents add $25

Grades 6–8
CRN#: 16497  M,T,W,R,F  7/20–7/24  9 a.m. – 4 p.m.

Dive Into Summer Writing

This is a fun-filled writing camp that will help increase your vocabulary and aid in composition writing. Learn basic grammar, write in daily journals, create a book review and play language arts hands-on games. Instructor: Natalie Evans

Campers must provide these supplies (not provided by MC): Basic supplies including paper, pencil, glue sticks and scissors. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam.

Online format: Live instruction via zoom.

Course: YOU792 4 Sessions, Online
$110 + $30 fee = $140; Non-Md. residents add $25

Grades 1–2
CRN#: 15587  M,T,W,R  6/29–7/2  9 a.m.–12 p.m.
Effective Writing

Writing is one of the most important skills needed to succeed academically. Learn some of the practical skills for effective writing. Practice writing and gain confidence in recognizing and correcting grammatical errors and understanding the fundamentals of sentence structure, punctuation, and word usage. Learn techniques for generating divergent ideas for compositions and story writing. Instructor: Natalie Evans

Campers must provide these supplies (not provided by MC): Basic supplies including paper and pencil. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam.

Online format: Live instruction via zoom.

Course: SCH964 5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25

Grades 3–5
CRN#: 15542 M,T,W,R,F 7/13–7/17 1–4 p.m.

Empire Building by Design

Come learn entrepreneurship skills through design. You will learn what it takes to get the mindset, ideas stream, market research, and beta testing to move forward with an idea of a design product or service. You will work in small groups to develop a design product. Groups will assign a CEO, treasurer, public relations manager, marketing manager and secretary. You will learn how to develop a “Hook”, “Story” and “Offer” which will help generate business leads and learn how to publish online. Discover successful online advertising–learn from others who are successful. Instructor: Julie Priddy ASID, CMKBD, NCIDQ, MC faculty

Campers must provide these supplies (not provided by MC): A computer with webcam and microphone capability. Access to the internet and a google account.

Online format: The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning and instruction on new topic. Provide an assignment for independent work until noon. From 12:30 pm – 1:30 pm, mid-day session where work will be reviewed through collaboration with fellow students. From 1:30 pm – 3 pm, independent assignment given. Wrap up sessions from 3pm – 4 pm, review the day’s projects and prepare for the next day. Information will be shared through BlackBoard, with online session through zoom.

Course: YTH228 10 Sessions, Online
$350 + $50 fee = $400; Non-Md. residents add $25

Grades 6–12
CRN#: 16498 M,T,W,R,F 7/6–7/17 9 a.m. – 4 p.m.
Explore the Magic of Reading, Writing and Technology
Authors of children’s books often include hidden meanings, a mystery, amazing facts, or an interesting effect through art. Come explore these fascinating books by a variety of authors including Chris Van Alsburg, Eric Carle, and Mary Pope Osborne. Improve your reading and writing skills while adding a touch of technology to enhance your author study. Plus create your own board game based on your favorite book. Instructor: Natalie Evans
Campers must provide these supplies (not provided by MC): Basic supplies including paper, pencil, colored pencils/markers, glue stick and scissors. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam. Books are available for downloading through MCPS libraries and Montgomery County libraries. Some are also available on YouTube. The specific books include: Zathura by Chris Vans Alsburg, The Hungry Caterpillar by Eric Carle and The Knight at Dawn (Magic Tree House series book #2) by Mary Pope Osborne.
Online format: Live instruction via zoom.
Course: YOU689 5 Sessions, Online
$120 + $55 fee = $175; Non-Md. residents add $25
Grades 3-5
CRN#: 16449 M,T,W,R,F 7/20-7/24 9 a.m. – 12 p.m.

Fast Track to Fractions and Decimals
Do you struggle with fractions and decimal operations? Do you understand the relationship between the two? This course will put you on the fast track to understanding the relationship between fractions and decimals and will set you up to be successful in future math classes. Instructor: Abygail Owen
Campers must provide these supplies (not provided by MC): A computer, a printer (preferred), colored pencils/crayons/markers, paper, pencils and a calculator. Documents will be available for download.
Online format: Live instruction will be provided for the first hour, independent work assigned for the second hour, and a review during live instruction for the third hour. Online instruction via Zoom.
Course: YTH057 5 Sessions, Online
$120 + $55 fee = $175; Non-Md. residents add $25
Grades 6–8
CRN#: 15518 M,T,W,R,F 7/6–7/10 9 a.m.–12 p.m.
CRN#: 15517 M,T,W,R,F 7/20–7/24 9 a.m.–12 p.m.
**Financial Literacy: Budget Basics**

This course is designed to help you understand the importance of financial literacy. Learning life skills such as creating a budget, balancing a checking account, calculating interest on a savings account and more. This course will allow you to put your newly acquired skills into action by creating a budget and includes researching professions and their earnings. Lots of choices and useful lessons for adult responsibilities and life. Instructor: Abygail Owen

**Campers must provide these supplies (not provided by MC):** Computer, a printer (preferred), colored pencils/crayons/markers, paper, pencils and a calculator. Documents will be available for download.

**Online format:** live instruction will be provided for the first hour, independent work assigned for the second hour, and a review during live instruction for the third hour. Online instruction via Zoom.

**Course: YTH056  5 Sessions, Online**

$120 + $55 fee = $175; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16452  M,T,W,R,F  6/29-7/3  9 a.m. - 12 p.m.

CRN#: 15515  M,T,W,R,F  7/13–7/17  9 a.m. – 12 p.m.

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**Forward Thinking Interior Design**

Design is everywhere! Explore forward-thinking interior design. This class is a hands-on, project-based course that allows you to become a spatial problem solver and help develop design solutions with your peers. You will exercise room design, color interpretations, cost estimating, and interviewing skills. This is a fast-paced “crash course” in interior design where technical knowledge is applicable to various design fields. This course will provide an overview of what is expected in the design field. We will discuss current energy innovations, Smart Home technology, Universal design, green design, and current trends in the industry. Instructor: Julie Priddy ASID, CMKBD, NCIDQ, MC faculty

**Campers must provide these supplies (not provided by MC):** A computer with webcam and microphone capability. Access to the internet and a google account.

**Online format:** The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning and instruction on new topic. Provide an assignment for independent work until noon. From 12:30 pm – 1:30 pm, mid-day session where work will be reviewed through collaboration with fellow students. From 1:30 pm – 3 pm, independent assignment given. Wrap up sessions from 3pm – 4 pm, review the day’s projects and prepare for the next day. Information will be shared through BlackBoard, with online session through zoom.

**Course: YOU976  5 Sessions, Online**

$300 + $50 fee = $350; Non-Md. residents add $25

**Grades 6–12  ages updated to grades 6-12**

CRN#: 15485  M,T,W,R,F  7/27–7/31  9 a.m. – 4 p.m.
**Growing Project Managers**

The course will introduce you to fun ways to manage the moving parts of a project from start to finish. You will get a chance to practice skills like project management, quality assurance and socialization skills. You will develop miniprojects through creative computing and web design with the help of online Karel the dog. You learn to program basic Python with Tracy the Turtle and learn effective way of executing a presentation. By the end of the camp, you will have learned and designed project of your own. Instructor: Enitan Okusanya

Campers must provide these supplies (not provided by MC): A computer with WIFI access.

**Online format:** Live instruction via Zoom.

**Course: YTH229 5 Sessions, Online**

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**

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**GURL Power**

Gurl Power aims to encourage young women to explore Science, Technology, Engineering, Art and Mathematics (STEAM). We will explore coding, game design, create a tiny house prototype that emphasizes the importance of aesthetics and how it can be used to enhance the technical and/or philanthropic aspects of the project. We will explore the Engineering Design Process and unlock the power of collaboration. Girls are encouraged to dig deep as they brainstorm project ideas in order to determine how they can use technology to make a positive impact in their local communities and beyond. Instructor: Jo Doerrman

Supplies needed at home: Recyclable materials (such as boxes, cereal boxes, paper towel tubes, etc.), glue or glue gun, masking tape. A laptop or personal computer is required. JavaScript, Python and Scratch will be used. Free versions are available online.

**Online format:** Live instruction via Zoom.

**Course: YTH231 6 Sessions, Online**

$110 + $30 fee = $140; Non-Md. residents add $25

**Grades 6–8 (Girls Only)**

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<td>M,W,F</td>
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<td>16520</td>
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<td>8/3 - 8/14</td>
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Intro to Architectural Design: Spatial Design Process

This class is a hands-on course that exercises both spatial problem solving and the development of design solutions with your peers. You will exercise drawing, model building, digital modeling and digital editing skills throughout the week. This is a fast crash course in architecture where technical skills are applicable to various design fields. This course is designed to prepare you for what is expected in the architectural design field. We will review current building innovations being made in the industry today and their technical applications. Instructor: Edrie Eichler, MC faculty

Campers must provide these supplies (not provided by MC): Scissors, white glue (such as Elmer’s) and several rolls of masking tape.

Online format: For the online teaching platform and for the digital aspects of the course, a computer is required. During the course, Sketchup will be used. This is available on the cloud for free at [https://www.sketchup.com/](https://www.sketchup.com/). Feel free to play around with this before the camp begins!

Additional supplies: A kit of materials will be available for curbside pickup approximately one week before this camp. All supplies will remain the property of the student.

Course YTH113 5 Sessions, Online
$145 + $60 fee = $205; Non-Md. residents add $25

Grades 6–8
CRN#: 45986 M,T,W,R,F 6/22–6/26 9 a.m. – 12 p.m.

It’s a Museum City

With our social distancing limitations and closures, we decided to do something even BIGGER than checking out Washington, DC’s museums. We are going to explore galleries, visit wild animals, and museum hop AROUND THE WORLD. You get to be a tourist, in your pajamas, with new friends your age (YES! you get to go with OTHER KIDS) to see the Mona Lisa at the Louvre in Paris, France, visit polar bears in Churchill, Manitoba, Canada, explore space with the experts at Johnson Space Center in Houston, Texas, and see bright and beautiful undersea life at the Monterey Bay Aquarium. In addition, we will document our experience in a museum journal and socially engage with one another while doing so! Get ready to travel around the world! Instructor: Jessica Hall, MC Faculty

Campers must provide these supplies (not provided by MC): Pencils, paper, colored pencils.

Online format: Live instruction via zoom.

Course: YTH205 5 Sessions Online
$145 + $30 fee = $175; Non-Md. residents add $25

Grades 3–5
CRN#: 46981 M,T,W,R,F 6/29–7/3 9 a.m. – 12 p.m.
**It’s Up for Debate**

In this camp, you will learn the main aspects of organized debating including the structure, format and procedures by which debates are conducted. You will learn how to research a subject area and to formulate arguments. And you will learn how to view all sides of an argument and apply this skill not only to discussion in this camp, but, hopefully to all aspects of your life. Instructor: Kraig Bauer

**Home supplies required for camp:** Basic supplies including paper and pencil. Information will be available for downloading by the students. Access to a computer (iPad, Chromebook) with webcam.

**Online format:** Live instruction via zoom.

**Course:** YTH107 10 Sessions, Online  
$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8 (GT)**  
CRN#: 15613 M,T,W,R,F 7/6–7/17 9 a.m.–12 p.m.

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**Java Programming Introduction**

Learn Java programming. Learn Object Oriented Programming (OOP) essentials and use Java’s Software Development Kit (JDK) to compile and run programs. Topics include data types, operators, loops, classes, objects, methods, arrays, and class inheritance. Use AWT and Java Swing packages to develop Graphical User Interface (GUI) web applications, including event listeners, text boxes, radio buttons, check boxes, menus, and images. Instructor-led in-class exercises and textbook exercises will be emphasized for hands-on teaching of programming skills. **Prerequisites:** Algebra skills. Basic knowledge of computers (starting programs, saving files). For those with interests in science and computer science. Instructor: Stephen Sell

**Campers must provide these supplies (not provided by MC):** Students will need access to a computer. Free software will be available for download.

**Online format:** The instructor will provide a combination of online instruction via Zoom, videos and supported independent learning.

**Course:** YOU737 10 Sessions, Online  
$370 + $30 fee = $400 Non-Md. residents add $25

**Grades 9–12 (GT)**  

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**Keyboarding for Computers**

It’s never too soon to learn basic keyboarding skills. Don’t get caught in the “hunt-and-peck” method trap! Learn correct finger positions so you will be an efficient computer operator. One student per IBM compatible computer. Each student will receive a Keyboarding book. Instructor: Janet Bergman

**Campers must provide these supplies (not provided by MC):** A computer with keyboard.

**Online format:** Live instruction via Zoom.

**Course:** YTH230 5 Sessions, Online  
$100 + $20 fee = $120; Non-Md. residents add $25

**Grades 6–8**  
CRN#: 16517 M,T,W,R,F 7/20-7/24 10 a.m. – 12 p.m.  
CRN#: 16518 M,T,W,R,F 8/3-8/7 10 a.m. – 12 p.m.
Kidpreneur Camp: Part 1
Are you interested in building something innovative and profitable with a team of creative, business-minded peers? Learn directly from entrepreneurs in the Southern Management Leadership Program. Work in teams to learn about developing a business idea, taking out business loans, fundraising, and marketing. The week concludes with group presentations of the selected ideas to a panel of judges for feedback. Instructors: Southern Management Leadership Program Scholars.

Campers must provide these supplies (not provided by MC): paper, pencils/pens.

Online format: Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online sessions.

Course: YTH060  5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25

Grades 6–8
CRN#: 15521  M,T,W,R,F  7/6–7/10  9 a.m. – 12 p.m.
CRN#: 15523  M,T,W,R,F  7/13–7/17  9 a.m. – 12 p.m.
CRN#: 15522  M,T,W,R,F  7/20–7/24  9 a.m. – 12 p.m.
CRN#: 15524  M,T,W,R,F  7/27–7/31  9 a.m. – 12 p.m.

Kidpreneur Camp: Part 2
Do you have an idea about how to tackle a social or environmental problem in your community? This session will teach you how to take your new entrepreneurial skills and apply them to an issue you are passionate about. At the end of the week, you will create and present a social enterprise graphic organizer that describes the important elements of their idea based on the Strategyzer business model canvas for feedback and reflections from their peers. You can and are encouraged to use your creation to launch a public campaign to address your issue. It is recommended that you take this session after completion of Part 1. **MCPS has approved this camp session for 10 Student Service Learning (SSL) hours.** Instructors: Southern Management Leadership Program Scholars.

Campers must provide these supplies (not provided by MC): paper, pencils/pens.

Online format: Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online sessions.

Course: YTH061  5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25

Grades 6–8
CRN#: 15527  M,T,W,R,F  7/6–7/10  1 – 4 p.m.
CRN#: 15525  M,T,W,R,F  7/13–7/17  1 – 4 p.m.
CRN#: 15528  M,T,W,R,F  7/20–7/24  1 – 4 p.m.
CRN#: 15526  M,T,W,R,F  7/27–7/31  1 – 4 p.m.
**Legal Eagles I: Trial by Jury**

Imagine for a moment you were going to determine whether someone is innocent or guilty. Take turns being a prosecutor, judge, and jury in this intriguing introduction to law and the court system. Within this course, you get to hear cases, present testimony, and decide the verdict in a mock trial. To do this however, you will learn the basics of being a lawyer and the tools and tactics that they use. You will become familiar with identifying problems with legal arguments, how to use evidence to prove your case, the art of debate, and how to interpret different laws to defend your clients. Additionally, you will also learn some of the stranger laws that are still on the books and how they got to be there. Instructor: Paul Kio

**Materials needed at home:** Access to a google account (not connected to a school system such as MCPS), colored pencils, paper, scissors and a device that supports online learning (iPad, Chromebook, laptop)

**Online format:** Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online periods.

**Course:** YOU885 5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 6–8**
CRN#: 15448 M,T,W,R,F 7/6–7/10 1 – 4 p.m.
CRN#: 15449 M,T,W,R,F 7/13–7/17 9 a.m. – 12 p.m.

**Legal Eagles II: Advanced Trials**

Legal Eagles: Advanced Trials will engage you in a variety of topics to enhance and develop your skills in logic-based reasoning and its applications to case law. The topics to be covered within this class are as follows: A Brief Review of Legal Background and Procedures, Logic Based Reasoning Exercises, and Mock Trials in Civil and Criminal Law. By the end of the class, you will have gained experience in argumentation techniques, organization and categorization of evidence, evidence interpretation, and will have a comfortable and fluid understanding of the trial process and its various procedures. This course is designed for those who have already taken Legal Eagles I: Trial by Jury or have previous knowledge or experience in studying law. Instructor: Paul Kio

**Campers must provide these supplies (not provided by MC):** access to a google account (not connected to a school system such as MCPS), colored pencils, paper, scissors and a device that supports online learning (iPad, Chromebook, laptop)

**Online format:** Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online periods.

**Course:** YOU886 5 Sessions, Online
$155 + $55 fee = $210; Non-Md. residents add $25

**Grades 6–8**
CRN#: 15450 M,T,W,R,F 7/20–7/24 1–4 p.m.
CRN#: 15451 M,T,W,R,F 7/27–7/31 9 a.m.–12 p.m.
**Mastering Writing Techniques**

Are you an avid reader or a serious writer? Do you want an opportunity to master your writing skills? This course will teach you the techniques you need. Examine samples of children’s books by famous writers. Learn how they use figurative language to create masterful works of art. Share ideas and critique works by your peers. Then, create your very own masterpiece. Instructor: Natalie Evans

**Campers must provide these supplies (not provided by MC):** Paper, pencil, glue stick and scissors. Information will be available for download. A google account and access to google docs and slides. Access to a computer (iPad, Chromebook) with webcam.

**Online format:** Live instruction via zoom.

**Course:** SCH982 4 Sessions, Online  
$141 + $30 fee = $171; Non-Md. residents add $25

**Grades 3–5**  
CRN#: 15545  
M,T,W,R  6/29–7/2  1–4 p.m.

**Mesmerizing Memoirs: The Story of Me**

Sponsored by the Sandy Sonner Endowment at Montgomery College, we are pleased to offer a week of writing exploration. Writing is one of the oldest and most beloved ways human beings express themselves. You will embark on a week-long journey into developing your writer’s craft. Writing activities will include Fairy-tale Do-overs; Create your Own Jokes and Riddles; Fictional and Non-Fictional Pet Stories; Design a How-To-Guide; The true story behind...; “Grammarama” Games, Autobiographies/ Memoir-making. You will use evaluation rubrics, self-assessment checklists, peer-editing and other diverse tools for developing your writing skills. By the end of the week, you will finish with a complete published book, have learned more about your voice and yourself, and complete a reflection on what writing means to you. Instructor: Dr. Mary Robinson, MC Faculty

**Campers must provide these supplies (not provided by MC):** a computer with MS Word to create the book at home. Access to a printer (color printer preferred) with paper. A one inch binder with 8 dividers, notebook paper, colored pencils, crayons (24 box preferred), pencils, erasers, pencil sharpener, small pack of stickers with stars (any color), pack of stickers (campers preference – fun), school box to keep supplies, water bottle, and a back pack (optional – used to keep supplies together for the week and to provide a visual of going to camp).

**Online format:** live instruction via zoom.

**Course:** YTH232 5 Sessions, Online  
$75 + $25 = $100; Non-Md. residents add $25 fee

**Grades 3–5**  
CRN#: 46915  
M,T,W,R,F  6/22–6/26  9 a.m.–10 a.m.
Mysteries in History

Who built Stonehenge and why? Where are the Seven Wonders of the World, and who decided they were wonderful? What happened to the people of Easter Island? How did the Egyptians build the pyramids without using pulleys? These and other mysterious events in history make learning an exciting process and introduce you to intriguing events from the past. This class is a historic version of “Unsolved Mysteries” and promises to be just as entertaining. Instructor: Paul Kio

Campers must provide these supplies (not provided by MC): Access to a google account (not connected to a school system such as MCPS), colored pencils, paper, scissors and a device that supports online learning (iPad, Chromebook, laptop)

Online format: Students will meet with the instructor for approximately 45 minutes to one hour at the beginning and end of the session. The students will work independently between the two online sessions.

Course: YOU704  5 Sessions, Online
$155 + $55 fee = $210; Non-Md. residents add $25

Grades 6–8
CRN#: 15583  M,T,W,R,F  7/6-7/10  9 a.m. – 12 p.m.
CRN#: 15584  M,T,W,R,F  7/27-7/31  1 - 4 p.m.

Photography—Beyond the “iPhone”

Sure, you can take good pictures with your phone, but there is photography beyond Instagram. How do you take your photographs to the next level with a real camera? Why are photographs better when using a real digital camera, or are they? How can you advance your technical and creative skills? What does it take to shoot a magazine cover? Do you want to be a professional photographer, and if so, what does that mean? All these questions and more will be answered in this hands-on photography camp. THIS IS NOT AN iPHONE PHOTOGRAPHY COURSE. Robert Severi Photography http://robertseveri.com. Instructor: professional photographer Robert Severi

Campers must provide these supplies (not provided by MC): Enrollees MUST have a digital camera that can be set to manual, and a memory card. No iPhones will be used. The camera’s battery should be fully charged. Also required is a card reader or connector cable, so you can upload files. Please have your camera owner’s manual on the first day, the owner’s manual, a computer, a way to upload their photos to their computer, software to view photographs.

Online format: Fifteen to 20-minute videos will be available before class begins, followed by a virtual session. After the lesson, students will go out to shoot photographs. A follow up virtual session at the end the day will review the student’s independent shooting session.

Course: YTH072  5 Sessions, Online
$155 + $30 fee = $185; Non-Md. residents add $25

Grades: 9–12
CRN#: 45984  M,T,W,R,F  6/22–6/26  9 a.m.–12 p.m.
CRN#: 15529  M,T,W,R,F  7/20–7/24  9 a.m.–12 p.m.
Psych: What It All Means
The taste of watermelon—the memory of your birthday— the wonder of optical illusions—the meaning of dreams— understanding this is all made possible through psychology. In this hand-on class, you will learn the regions of the brain and construct a brain model, you will discover the functions of the five senses and test your functions, create optical illusions, understand the stages of sleep, and meaning of dreams, learn way to improve your memory, and discover techniques to train people and pets. Instructor: Jenn Bauer
Campers must provide these supplies (not provided by MC): Paper, pencil, markers/crayons, glue, scissors, and tape. Additional supplies will be available for pick up on a designated time/location. Information will be available for downloading by the students. Access to a computer (iPad, Chromebook) with webcam.
Online format: Live instruction via Zoom.
Course: YOU467 5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25
Grades 6–8
CRN#: 45962 M,T,W,R,F 6/22–6/26 9 a.m.–12 p.m.

Python: A Practical Introduction to Programming
Learn to program with Python. Python is an open-source, contemporary programming language that is widely used not only in colleges and high schools to teach introductory programming, but also in the development of software and cyber-security programs, among other things. Learn to solve problems and apply standard programming concepts such as variables, math operators, data types, decisions, loops, functions, objects, Graphical User Interfaces (GUIs), and modules. Develop, games, random functions, graphic animations and other programs in this hands-on class. Prerequisites: Algebra skills, basic knowledge of computers (starting programs, saving files). Instructor: Stephen Sell
Campers must provide these supplies (not provided by MC): Students will need access to a computer. Free software will be available for download.
Online format: The instructor will provide a combination of online instruction, videos and supported independent learning.
Course: YOU730 10 Sessions, Online
$340 + $30 fee = $370; Non-Md. residents add $25
Grades 9–12 GT
CRN#: 46918 M,T,W,R,F 6/22–7/3 9 a.m.–12 p.m.
Reading Adventures
Kindle your love of reading by traveling to many exciting places through the magic of books. Dozens of stories will be read and explored with songs, discussions, poetry, art projects, and grammar games. You will also get several opportunities to create your own stories, including your own Dr. Seuss-like book. Instructor: Natalie Evans
Campers must provide these supplies (not provided by MC): Basic supplies including paper, pencil, glue stick, scissors, markers/crayons/color pencils. Information will be available for downloading by the students. Access to a google account with access google docs and slides. Access to a computer (iPad, Chromebook) with webcam.
Online format: Live instruction via zoom.
Course: SCH909 5 Sessions, Online
$145 + $30 = $175; Non-Md. residents add $25 fee
Grades 1–2
CRN#: 15540 M,T,W,R,F 7/13–7/17 9 a.m.–12 p.m.

Reading for the SAT/ACT
An overview of the reading sections for the SAT & ACT. The course will cover strategies, techniques and key aspects to look for when taking the SAT & ACT tests. This will include practice to employ and refine these skills. Instructor: Kraig Bauer
Campers must provide these supplies (not provided by MC): Paper and pencils. Information will be available for downloading by the students. Access to a computer (iPad, Chromebook) with webcam.
Online format.
Course: YOU729 5 Sessions, Online
$145 + $30 fee = $175; Non-Md. residents add $25
Grades 9-12
CRN#: 45964 M,T,W,R,F 6/22–6/26 9 a.m.–12 p.m.

Secret Life of Plants
In this introduction to botany and entomology, students will dive into a hands-on and creative experience! We will explore the mysteries of plants and the insects that pollinate them! As we grow plants from home, we will dive into the mysteries behind plants: do they have feelings, what keeps them upright, do they communicate, how do they make food, how they coexist with bugs and so much more! Instructor: Melisa Felipe
Campers must provide these supplies (not provided by MC): Five carnation flowers (if possible), 1 box of food coloring (various colors), scissors, an empty two-liter soda bottle, glue, one large Ziploc bag,
Online format: Live instruction via zoom.
Course: YTH233 5 Sessions, Online
$100 + $30 fee = $130; Non-Md. residents add $25
Grades 3–5
CRN#: 16521 M,T,W,R,F 7/20–7/24 9 a.m.–12 p.m.
CRN#: 16522 M,T,W,R,F 7/20-7/24 1-4 p.m.
**Story Writing through Cartooning**

Do you love comics or graphic novels and want to make your very own comic book? Then this course is totally for you! New and seasoned cartoonists will come together to learn and further develop their own style of drawing comics! We will develop our drawing skills with drawing proportion of figures/characters, show a depth of setting in our scenes and we will practice shading techniques with dots and lines! Cartoonists will be guided throughout the full process of writing their original stories, drawing them out, inking, coloring and over the week, turning our own ideas into a self-published comic book! We will engage in creative exercises to help our creative process and learn how to build artist community through guided collaboration with other cartoonists within the group. Make your stories and characters come to life! Excelsior!

Instructor: Meredith Carver

Campers must provide these supplies (not provided by MC): A ruler, pencils, a small flashlight, a variety of colored pencils, pencil sharpeners, eraser, paper and a stapler.

Additional supplies: Will be available from Montgomery College and will be available for curbside pickup approximately one week before this camp begins.

Online format: A supply kit of materials not listed below will be available for pick up the week before camp begins. Step-by-step videos of simple tasks are provided. In addition, during live instruction students will share ideas and creations to create a sense of a supportive and collaborative art community.

**Course: YTH234  5 Sessions, Online**

$145 + $40 fee = $185; Non-Md. residents add $25

**Grades 6–8**

CRN#: 16523  M,T,W,R,F  7/13–7/17  1-4 p.m.

CRN#: 16524  M,T,W,R,F  7/20–7/24  1-4 p.m.

**Story Writing through Puppetry**

Have you ever wanted to create and perform your own puppet show? In this course, we will create and fully develop your original stories and characters, watching them come to life! We will create moveable mouth talking puppets along with scenery and props that are important in telling your story. We will also learn how to build our own puppet theaters and even practice creating and performing with shadow puppets and shadow effects! Puppetry movement and voice work will be practiced to develop performance skills with puppet creations. You will even learn how to promote your shows and practice building artist community through collaboration with other performers in class practice! Instructor: Meredith Carver

Campers must provide these supplies (not provided by MC): White glue, small flashlight, small stapler, pencils, pencil sharpeners, eraser, paper, colored pencils, socks (1-2 for puppet), scissors, tape, long sleeved shirt, bandana or dish towel, medium cardboard box, cardboard pieces to cut, small boxes (size of box for granola bars), paper or toilet paper rolls, newspaper or recycled paper for papier mache, a bowl for papier mache paste mixture, one bowl for papier mache mold, table covering and flat table area for workspace.

Additional supplies: Will be available from Montgomery College and will be available for curbside pickup approximately one week before this camp begins.

Online format: Step-by-step videos of simple tasks are provided. During live instruction students will join in fun games to expand on concepts and techniques.

**Course: YTH235  5 Sessions, Online**

$100 + $40 fee = $140; Non-Md. residents add $25

**Grades 3–5**

CRN#: 46916  M,T,W,R,F  6/22-6/26  1–2:30 p.m.

CRN#: 16525  M,T,W,R,F  7/6-7/10  1–2:30 p.m.
The Biology of Food

Come explore the four biomolecules (carbohydrates, lipids, proteins and nucleic acids), their structures and the role they play in our bodies. We will explore the food we eat and what biomolecules are found in them and how our body takes that in. You will explore different foods such as Takis, Chipotle and other popular snacks.

Instructor: Samantha Cruz

Campers must provide these supplies (not provided by MC): A computer, internet access, paper, pencils, and food labels.

Online format: Prerecorded and/or direct instruction will be provided for the first hour of camp. The students will work independently on an assignment. The camp will come back together at 3 pm to discuss the results of the student’s work.

Course: YTH236 3 Sessions, Online

$90 + $20 fee = $110; Non-Md. residents add $25

Grades 6-12

CRN#: 16526  M,W,F  7/13 - 7/17  1-4 p.m.
CRN# 16527  M,W,F  7/20 - 7/24  1-4 p.m.

Traveling History: The 19th Amendment (100th Anniversary of Woman’s Suffrage)

“Mr. President, How Long Must We Wait?” Learn how this call for women’s suffrage helped shape U.S. history. Together, we’ll virtually explore remarkable historic sites and artifacts in Washington, D.C., that pay tribute to the fight for voting rights for women in the United States. Student participants will participate in engaging discussions highlighting key leaders of the Women’s Suffrage Movement including Susan B. Anthony, Ida B. Wells, Sojourner Truth, and Lucretia Mott. We’ll also research and discuss the importance of the 1848 Seneca Falls Convention. Get ready to explore the journey of American women in this exciting online opportunity! You will choose a current topic and create your ideas to advocate for change and improvement in your community.

MCPS has approved this camp session for 10 Student Service Learning (SSL) hours. Instructor: Jerome Price

Campers must provide these supplies (not provided by MC): computer, internet access, paper, pencils/pens.

Online format: Live instruction via Zoom. The length of the live instruction will vary by day. Students will have some independent work assigned.

Course: YTH237 5 Sessions, Online

$145 + $50 fee = $195; Non-Md. residents add $25

Grades 6–8

CRN#: 16528  M,T,W,R,F  7/27–7/31  1 - 4 p.m.
Traveling History: The American Presidents
Want to learn more about the 45 leaders of the Executive Branch of government? Learn how each president impacted the lives of American citizens—both young and old! Using the Zoom platform, you'll participate in discussions and research a former U.S. President. We'll explore a range of virtual museums together throughout the week that pay tribute to our American Presidents. Get ready to explore the lives of our nation's leaders in this exciting online opportunity! [MCPS has approved this camp session for 10 Student Service Learning (SSL) hours.]
Instructor: Jerome Price
Campers must provide these supplies (not provided by MC): computer, internet access, paper, pencils/pens.
Online format: Live instruction via Zoom. The length of the live instruction will vary by day. Students will have some independent work assigned.
Course: YTH238 5 Sessions, Online
$145 + $50 fee = $195; Non-Md. residents add $25
Grades 6–8
CRN#: 16529 M,T,W,R,F 7/13–7/17 1–4 p.m.

Traveling History: The Fight for Civil Rights
Together, we will uncover the powerful stories of Americans who fought to achieve and protect the civil rights of African Americans during the 1950s and 1960s. Learn about the fight for civil rights in Montgomery County, Washington, D.C., and other areas throughout the United States. You'll participate in Zoom discussions and explore virtual museums that pay tribute to this important moment in history. Get ready to explore the legacy of the Civil Rights Movement!
[MCPS has approved this camp session for 10 Student Service Learning (SSL) hours.]
Instructor: Jerome Price
Campers must provide these supplies (not provided by MC): computer, internet access, paper, pencils/pens.
Online format: Live instruction via Zoom. The length of the live instruction will vary by day. Students will have some independent work assigned.
Course: YTH239 5 Sessions, Online
$145 + $50 fee = $195; Non-Md. residents add $25
Grades 6–8
CRN#: 16530 M,T,W,R,F 7/20–7/24 1–4 p.m.
**Web Design**

The worlds of Web and visual arts collide in this cutting-edge introductory course. Learn to make your own website and how to take professional pictures and import them to your site. Explore the basics of color theory and make your website pop with dynamic animations created in HTML5 and CSS. Create anything from a basic web page to an innovative, artistic site with interactive functions. Then publish your vision online to share with friends, family, our summer web camps and the world to see! In order to publish your projects on free web space, you will need an e-mail account prior to the first day of class. Please remember to keep your password in a safe place.

Campers must provide these supplies (not provided by MC): A PC/Laptop Windows 7 or later with internet access and a webcam. A free Scratch account from scratch.mit.edu will be set up on the first day of camp.

**Online format:** The schedule of the day (times are approximate and are modified based on the needs of the students): 9am-10:15am, review previous day’s learning, and evening project. Instruction on new topic. Provide practice lessons for the day and review examples. Students work independently until noon. From 12pm – 12:45 pm, help sessions online via zoom. Progress will be monitored, and additional assignments provided as applicable. From 3pm – 4 pm, review practice lessons. Each evening a short assignment will be given to ensure understanding of the material. This assignment will not take more than an hour to complete.

Instructor: David Hill  
Course: YTH240 10 Sessions, Online  
$400 + $30 = $430; Non-Md. residents add $25  
Grades 6–8  
CRN#: 46931  
M,T,W,R,F  
6/22–7/3  
9 a.m.– 4 p.m.

**Writing for the SAT and ACT**

Prepare for the writing section of the SAT and ACT. Analyze typical essay prompts and sample responses. Learn to support your opinions by using your own experiences and readings to accomplish the task of writing to a persuasive prompt. Using logical thinking, enhance your awareness of the structure of your arguments and avoid fallacies in reasoning. Practice writing the parts of an essay, composing entire essays, and revising and evaluating your own writing and that of your peers. Engage in group games and activities to heighten your knowledge and skill set of grammar and test taking skills. Increase your ability to write in timed situations. Add rhetorical strategies to your repertoire of writing skills and improve your understanding of Standard English usage through instruction, individual and group practice. Enhance your skill set for the multiple-choice questions on both tests. In small groups break apart all types of multiple-choice questions to arrive at effective methods for answering multiple choice questions. Practice skills learned and take practice tests to heighten your comfort with the testing situation. Instructor: Jennifer Bauer

Campers must provide these supplies (not provided by MC): Paper and pencils. A packet of paperwork will be available for pick up by parent. Access to a computer (iPad, Chromebook) with webcam.

**Online format:** Live instruction via Zoom.  
Course: YTH106 10 Sessions, Online  
$200 + $50 fee = $250; Non-Md. residents add $25  
Grades 9–12  
CRN#: 15610  
M,T,W,R,F  
7/6–7/17  
9 a.m.–12 p.m.
**Yoga, Meditation and Storytelling: Developing Flexibility and Having Fun!**

All bodies and minds benefit from the development of a yoga and meditation practice. In this camp, you will learn and practice yoga poses that are both fun and beneficial! You will also do fun games, partner poses, and learn a few words in Sanskrit! The benefits of developing a yoga practice for a young person include building self-esteem, increasing flexibility and strength, learning stress management, learning respect for self and others, managing growing pains, and improving focus. This course will also include some writing. Instructor: Jessica Hall

Campers must provide these supplies (not provided by MC): Paper, pencils, colored pencils.

Online format: Live instruction via Zoom.

**Course: YOU981** 5 Sessions, Online

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 3–5**

CRN#: 15486  M,T,W,R,F  8/10–8/14  9 a.m.–12 p.m.

**Young Physicians**

Are you fascinated by the human body? Do you enjoy learning about different body systems and how they work? In this relaxed hands-on camp, we will carry out cool lab experiments, construct models, discuss career opportunities in the medical field, and conduct research as you explore the body inside and out. Instructor: Melisa Felipe

Online format: Live instruction via Zoom.

**Course: YTH241** 5 Sessions, Online

$145 + $30 fee = $175; Non-Md. residents add $25

**Grades 3–5**

CRN#: 16540  M,T,W,R,F  7/6–7/10  9 a.m. – 12 p.m.

CRN#: 16541  M,T,W,R,F  7/13–7/17  1 – 4 p.m.
Abrakadoodle, one of the most well-established art education companies of its kind, inspires kids to reach beyond and create art that is unique to them. Offering extensive art classes for children of all ages, the goal is to help students develop their technical skills, gain an appreciation of artistic expression, build confidence, individually and as a part of a group, and experience other academic subject matter from an artistic perspective using the full range of visual arts media. All lessons are scaled to the age level designated in each camp and are progressively more challenging and nuanced in the concepts and techniques presented to reflect students’ abilities. Stephanie Burke EdS. – Abrakadoodle of Greater Silver Spring and Nancy Delasos – Abrakadoodle of Montgomery County

**Campers must provide these supplies (not provided by MC):** paper, pencil, colored pencils/markers/crayons/pens, a ruler or straight edge, scissors. Optional: sharpies or colored pens.

**Online format:** live instruction via zoom. A sample two-hour course:

- 9:30 am – 9:45 am – Welcome: entry from virtual waiting room/greetings
- 9:45 am – 9:55 am – Introduction: camp rules and recap/sharing/outlining the day
- 9:55 am – 10:10 am – art lesson introduction
- 10:10 am – 10:30 am – start independent work
- 10:30 am - 10:45 am – break/snack, or continue independent work
- 10:45 am – 11:15 am – continue independent work, check ins with individual campers
- 11:15 am – 11:30 am – share student artwork, gallery review, prepare for the next day

**Drawsters - Anime**

Come study the fun and beautiful Japanese art of Animé. Learn how to create the unique look that is Animé, starting with the basics of head and facial features, then adding body shapes, hands and feet and body motion. We'll explore animal anime, chibis, mecha and more. Use shapes, colors and techniques to produce your own unique finished Animé characters and put it all together to write and illustrate a graphic novel.

**Course:** YTH242  5 Sessions, Online  
$125 + $25 = $150; Non-Md. Residents add $25  
**Grades 1-5**  
**Grades 6-12**  
CRN#: 46997  M,T,W,R,F  6/22-6/26 1:00 p.m. – 3:00 p.m.

**Drawsters - Cartoon Creations**

Everyone loves a little whimsy! Abrakadoodle’s one-of-a-kind drawing program will introduce artists to the creative world of cartooning by launching imaginations with spaceships and rockets, bouncing with Balloon People, and dreaming about what animals’ love. Students will learn about symbolism on welcome flags, explore music in the whimsical art of Sandra Boynton, and create fun geometric characters in the tradition of kid-friendly cartoon artist Ed Emberly. And no cartooning adventure is complete without the art of the comic strip! Each student will create his or her own comic frame featuring the traditional elements of characters and dialogue. Sequential lessons allow children to build drawing skills while gaining confidence.

**Course:** YTH243  5 Sessions, Online  
$125 + $25 = $150; Non-Md. Residents add $25  
**Grades 1-5**  
CRN#: 16601  M,T,W,R,F  7/6-7/10 9:30 am - 11:30 am  
**Grades 6-12**  
CRN#: 16543  M,T,W,R,F  7/13-7/17 1:00 p.m. – 3:00 p.m.
**Drawsters - Draw Rah, Rah!**
Cheer on your imagination in Abrakadoodle's drawing program that focuses on the creative process. Students develop drawing skills that can be applied to all sorts of projects and imaginative adventures. They learn about line drawing, patterning, perspective, creating unusual environments and other drawing techniques. Drawsters will explore the colorful art form of popular artist Romero Britto. Create illustrations inspired by Susan Stockdale's underwater environments and design magical creatures and gardens in her style. Each lesson provides skill development and imaginative applications. Confidence in drawing abilities will be emphasized. Each child creates art that is as unique as he or she is!

**Course:** YTH245  5 Sessions, Online  
$125 + $25 = $150; Non-Md. Residents add $25  
**Grades 1-5**  
CRN#: 46994  
M,T,W,R,F  6/29-7/3  9:30 am - 11:30 am  
**Grades 6-12**  
CRN#: 16544  
M,T,W,R,F  7/6-7/10  1:00 p.m. – 3:00 p.m.

**Drawsters - Drawing Upon the Imagination**
Abrakadoodle takes drawing to a whole new level by incorporating drawing into the creative process. Inspiration comes from Dog Mountain, Vermont, home to artist Stephen Huneck who creates friendly, curious doges, all the way to Japan, where artist Takashi Murakami has rock star status as the creator of cartoon characters. Through Abrakadoodle's unique Drawsters program, children learn skills that will last them a lifetime and help their imaginations take flight.

**Course:** YTH 244  5 Sessions, Online  
$125 + $25 = $150; Non-Md. Residents add $25  
**Grades 1-5**  
CRN#: 46995  
M,T,W,R,F  6/22-6/26  9:30 am - 11:30 am  
**Grades 6-12**  
CRN#: 46996  
M,T,W,R,F  6/29-7/3  1:00 p.m. – 3:00 p.m.

**Drawsters - EZ Draw**
Everyone can draw! In fact, you already know how to draw many things such as shapes, letters, numbers and more. Combine what you already know with some EZ techniques and the possibilities are endless! Create farm animals, buildings, people, abstract art, and visual poetry using skills you have and EZ drawing techniques. The results are amazing! Learn about innovative American artist Saul Steinberg and his creative use of dots and lines; the centuries-old tradition of Illuminated Manuscripts; and, combine poetry and drawing like French poet and artist Guillaume Apolinaire. Even learn to draw super letters that can be used for cards, posters, and projects. Drawing success is as simple as A-B-C!

**Course:** YTH246  5 Sessions, Online  
$125 + $25 = $150; Non-Md. Residents add $25  
**Grades 1-5**  
CRN#: 16604  
M,T,W,R,F  7/27-7/31  9:30 am - 11:30 am  
**Grades 6-12**  
CRN#: 16545  
M,T,W,R,F  8/3-8/7  1:00 p.m. – 3:00 p.m.
**Drawsters - Geometric Wonders**
Oh, the wondrous things shapes can do! Geometric shapes are the basis to design buildings, invent a flag, draw a still life, and more! Learn to use a simple drawing tool that can make geometric shapes for beautiful drawings ranging from abstraction to architecture to character design. Learn about architecture from a few angles: the centuries-old structure of Chinese pagodas, the wonder of cutting-edge building design in Dubai, and Gothic stained glass rose windows. Compose polygon drawings inspired by Chinese tangrams and Taiwanese painter Shaiu-Peng Chen. Create sleek, modern characters in the style of French artist Christopher Bettig. Hop on a Pop Art Bus to complete the fun while learning about contemporary New York artist Marco!

**Course: YTH247  5 Sessions, Online**
$125 + $25 = $150; Non-Md. Residents add $25

**Grades 1-5**
CRN#: 16546  M,T,W,R,F  8/3-8/7  9:30 am - 11:30 am

**Grades 6-12**
CRN#: 16547  M,T,W,R,F  8/10-8/14  1:00 p.m. – 3:00 p.m.

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**Drawsters - I Like to Move It!**
Drawing can be so much fun when you move it! Create drawings that incorporate driving, flying, flapping, biking, running, playing soccer, dancing, skateboarding, riding roller coasters, and even orbiting in outer space! Learn about aviation art, movement in drawing, light and shadow, and popular advertising while also learning about contemporary artists such as American painter Craig Randall, Brazilian artist Luiz Cavalli, and the long-running American show Imagination Station’s mastermind, Mark Kistler. Design shoes while learning about the Girls Gotta Run Foundation that raises money to provide running shoes for Ethiopian girls. Understand that there are all kinds of talented artists, like Alaska’s Erik Behnke, a whimsical wildlife artist who has Down syndrome and autism. Even celebrate World Cup 2010 with South African artist Esther Mahlangu and her Ndebele style!

**Course: YTH248  5 Sessions, Online**
$125 + $25 = $150; Non-Md. Residents add $25

**Grades 1-5**
CRN#: 16548  M,T,W,R,F  7/20-7/24  9:30 am - 11:30 am

**Grades 6-12**
CRN#: 16549  M,T,W,R,F  7/27-7/31  1:00 p.m. – 3:00 p.m.

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**Drawsters Sketcher Kids**
Learn how to draw and sketch what you see and even what you don’t see! Sketcher Kids will create their own personal sketchbooks just like professional artist. They’ll learn a variety of techniques and secrets that make drawing both easy and entertaining. They’ll have fun with cats, viewfinders, kid drawing and a variety of drawing materials and exercises. At the end, they will have developed their own personal style!

**Course: YTH249  5 Sessions, Online**
$125 + $25 = $150; Non-Md. Residents add $25

**Grades 1-5**
CRN#: 16550  M,T,W,R,F  8/10-8/14  9:30 am - 11:30 am

**Grades 6-12**
CRN#: 16551  M,T,W,R,F  8/17-8/21  1:00 p.m. – 3:00 p.m.
**Drawsters - Who's That Character?**

Kids all around the world love cartoon characters! Learn about the creators, artists and designers of these loveable characters! We'll draw fairies, superheroes, cuddly animals and more! Some of the creators include Scottish playwright J.M. Barrie, who imagined Tinker Bell in his book "Peter Pan"; Bob Kane a "doodler" who sketched his first Batman image while he was still a teenager; Charles M. Schulz, who drew the popular comic strip "Peanuts" featuring the beloved Snoopy character for fifty years; and, George Lerner, who invented Mr. Potato Head using vegetables from his own family garden! Other popular characters come from around the world including Japan, Belgium, France and Canada. And of course, the series would not be complete without Abrakadoodle's own adorable Splat, the cheerful doodling dog created by multi-talented American artist Joan McGurren. Learn about these fabulous artists and their characters - and create some of your own characters in the process!

**Course: YTH250  5 Sessions, Online**

$125 + $25 = $150; Non-Md. Residents add $25

**Grades 1-5**

CRN#: 16552  M,T,W,R,F  7/13-7/17  9:30 am - 11:30 am

**Grades 6-12**

CRN#: 16553  M,T,W,R,F  7/20-7/24  1:00 p.m. – 3:00 p.m.
The magic in you will come to life as never before when you are empowered to be as creative as you were born to be.

Black Rocket has twenty years of experience designing camps in the S.T.E.A.M fields. Every program is powered by the camper’s innate imagination and designed to bring their ideas to life in a fun, hands-on learning environment. From concept to creation students will demonstrate their masterpiece to the world at the end of each week! All Black Rocket programs mirror real-life experiences and the collaborative nature of the design process.

Technical specifications for each course are listed. For an overall view, go to: https://blackrocket.com/online-tech-specs

3D Game Design with Unity
Are you ready to take your game design skills to another level? With Unity, an industry-grade design software, aspiring game designers will learn level editing, 3D modeling, impactful gameplay creation, as well as how to utilize scripts and variables. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*This requires a 64-bit operating system.
*Compatible with MAC and Windows OS only.
Course: YOU993 5 Sessions, Online
$125 + $25 fee = $150; Non-MD residents add $25
Grades 3-5
CRN#: 46750  M,T,W,R,F  6/29-7/3  9:30 am – 12:30 p.m.
CRN#: 15501  M,T,W,R,F  7/13-7/17  9:30 am – 12:30 p.m.

Grades 6-8
CRN#: 46751  M,T,W,R,F  6/29-7/3  1:30 - 4:30 p.m.
CRN#: 15502  M,T,W,R,F  7/13-7/17  1:30 - 4:30 p.m.
**Battle Royale: Make Your First **Fortnite®** Style Video Game**

Fans of Fortnite we need you! Instead of playing the game, design your own. Using a professional 3D game development software, build levels and assets inspired by popular battle royale games like Fortnite. Students can participate in eSports League matches against other schools across the country with a chance to have their levels featured in the Black Rocket master build of the game! This course includes cartoonish action and battle sequences. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*This requires a 64-bit operating system.*

**Compatible with MAC and Windows OS only.**

Course: YOU988  5 Sessions, Online  
$125 + $25 fee = $150; Non-MD residents add $25

Grades 3-5  
CRN#: 45977  M,T,W,R,F  6/8-6/12  9:30 am – 12:30 p.m.

CRN#: 15490  M,T,W,R,F  8/3-8/7  9:30 am – 12:30 p.m.

Grades 6-8  
CRN#: 45978  M,T,W,R,F  6/8-6/12  1:30 - 4:30 p.m.

CRN#: 16403  M,T,W,R,F  8/3-8/7  1:30 - 4:30 p.m.

**Code Breakers**

Calling all future coders, programmers, & designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! Whether you want to be a Silicon Valley CEO or the high school student who just made $1 million dollars for programming in her bedroom, this course has the essentials you need to begin your journey. Projects will be available on a Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

**Compatible with MAC, Windows and Chrome OS.**

Course: YOU658  5 Session, Online  
$125 + $25 fee = $150; Non-MD residents add $25

Grades 3-5  
CRN#: 16371  M,T,W,R,F  7/6-7/10  1:30 - 4:30 p.m.

Grades 6-8  
CRN#: 16370  M,T,W,R,F  7/6-7/10  9:30 am – 12:30 p.m.

**Code Your Own Adventure! Interactive Storytelling**

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and JavaScript. Student projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

**Compatible with MAC and Windows OS only.**

Course: YOU943  5 Sessions, Online  
$125 + $25 fee = $150; Non-MD residents add $25

Grades 3-5  
CRN#: 16377  M,T,W,R,F  7/27-7/31  9:30 am – 12:30 p.m.

Grades 6-8  
CRN#: 16376  M,T,W,R,F  7/27-7/31  1:30 - 4:30 p.m.
**eSports Apprentice - Streamers and Gamers**

Whether you want to be the next pro gamer, streamer, or gamecaster this course will teach you the basics to get started! No longer just a hobby, eSports is the fastest-growing career for the next generation. Over 400 million people watched YouTube videos and Twitch streams of video game competitions this year alone! In this course, students will develop game-play skills and compete using Black Rocket’s eSports games and apps, learn how to produce commentary for live tournaments, use professional streaming software, and most importantly practice online safety. Student recordings will be available on a password protected website to share with friends and family. Students will work in pairs or teams for most of the program. Videos will not be broadcast publicly but will be shared with all students in the class.

*A webcam is required for this course Software is compatible with MAC and Windows OS only.*

**Course: YOU990  5 Sessions, Online**

$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**

CRN#: 46749  M,T,W,R,F  6/22-6/26  1:30 - 4:30 p.m.

CRN#: 15494  M,T,W,R,F  8/17-8/21  1:30 - 4:30 p.m.

**Grades 6-8**

CRN#: 46748  M,T,W,R,F  6/22-6/26  9:30 am – 12:30 p.m.


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**Inventor’s League - Prototyping for the Future!**

Become an inventor of the future! Learn ‘rapid prototyping’ and problem solving as you conceptualize and design a product to solve a critical global issue. Each day begins with inspirational profiles of young inventors, such as the eleven-year-old who coded a robot to find victims of natural disasters. Next, research a problem to tackle in medicine, architecture, the environment, or a topic of your choosing. Once your vision is complete, learn how to draft 2D designs, create 3D models, and develop a website to pitch your ideas to the class. Student projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.*

**Course: YTH206  5 Sessions, Online**

$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**

CRN#: 16382  M,T,W,R,F  7/6-7/10  9:30 am – 12:30 p.m.

CRN#: 16385  M,T,W,R,F  7/20-7/24  9:30 am – 12:30 p.m.

**Grades 6-8**

CRN#: 16383  M,T,W,R,F  7/6-7/10  1:30 - 4:30 p.m.

CRN#: 16384  M,T,W,R,F  7/20-7/24  1:30 - 4:30 p.m.
JavaScript Developer Jam
Learn programming tools so powerful they seem like magic! Start off by learning an array of core programming concepts with JavaScript by experimenting in a series of digital challenges. Start with programming your first animated memes, then tackle more advanced skills such as interactive 3D experiences and game creation. Projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.
* **$10 license fee per student with this class and is included in the fee.**
* **Compatible with MAC, Windows and Chrome OS.**

**Course: YTH133 5 Sessions, Online**

$125 + $35 fee = $160; Non-MD residents add $25

**Grades 3-5**
- CRN#: 16378  M,T,W,R,F  6/29-7/3  1:30 - 4:30 p.m.
- CRN#: 16453  M,T,W,R,F  8/24-8/28  1:30 - 4:30 p.m.

**Grades 6-8**
- CRN#: 16455  M,T,W,R,F  8/24-8/28  9:30 am – 12:30 p.m.

Make Your First Video Game!
If you love playing video games, this is the camp for you! Make your first video game in this one-of-a-kind class that shows you the keys to designing your first 2D platformer game. Conceptualization, play experience, level design, graphics, sounds, and simple coding are just some of the concepts that we’ll explore. Student projects will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers; Mac versions can be created after the program for $15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.  * **Compatible with Windows OS only.**

**Course: YOU384 5 Sessions, Online**

$125 + $35 fee = $160; Non-MD residents add $25

**Grades 3-5**
- CRN#: 46295  M,T,W,R,F  6/22-6/26  9:30 am – 12:30 p.m.
- CRN#: 16398  M,T,W,R,F  8/24-8/28  1:30 - 4:30 p.m.

**Grades 6-8**
- CRN#: 46791  M,T,W,R,F  6/22-6/26  1:30 - 4:30 p.m.
- CRN#: 16401  M,T,W,R,F  8/24-8/28  9:30 am – 12:30 p.m.

Minecraft® Animators
Create the next popular animated Minecraft video on YouTube! Practice the same skills professionals at Pixar and Disney Animation Studios use. Discover the process of keyframing and tweening, how to use it to bring your own animated stories to life, and how to publish your content on YouTube. Student projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Mac users can play their project at home, but will not be able to edit the project without a PC. Returning students can create more advanced projects that build on previous years.
* **Compatible with Windows OS only.**

**Course: YOU780 5 Sessions, Online**

$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**
- CRN#: 16372  M,T,W,R,F  7/13-7/17  1:30 - 4:30 p.m.
- CRN#: 16402  M,T,W,R,F  8/24-8/28  1:30 - 4:30 p.m.

**Grades 6-8**
- CRN#: 16373  M,T,W,R,F  7/13-7/17  9:30 am – 12:30 p.m.
- CRN#: 16375  M,T,W,R,F  8/24-8/28  9:30 am – 12:30 p.m.
**Minecraft® Designers**

If you love the game Minecraft and always wanted to design your own world, this class is for you! Learn how to create a custom map, the basics of creating 3D models using a new software to design your very own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*Compatible with MAC and Windows OS only.* [Purchase Minecraft Java Edition](#)

**Course:** YOU561  
**5 Session, Online**

$125 + $25 fee = $150; Non-MD residents add $25

**Online Course**

**Grades 3-5**

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<td>16368</td>
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**Grades 6-8**

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<td>1:30 - 4:30 p.m.</td>
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**Minecraft® Modders**

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student projects will be available on a password protected Black Rocket website to share with friends and family. **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*Compatible with MAC and Windows OS only.* [Purchase Minecraft Java Edition](#)

**Course:** YOU659  
**5 Sessions, Online**

$125 + $25 fee = $150; Non-MD residents add $25

**Online Course**

**Grades 3-5**

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**Grades 6-8**

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<td>15580</td>
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<td>7/27-7/31</td>
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<td>1:30 - 4:30 p.m.</td>
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**Minecraft® Redstone Engineers**
Take the next step beyond simply “playing” Minecraft and become a true Redstone engineer. Expand your Redstone knowledge by constructing your own carnival with a variety of mini-games, roller coasters, and attractions powered by Redstone. Learn how to use Command and Structure blocks to incorporate them into your builds. Activate your skills and take your Minecraft structures to the next level! **Students must own a Java version of Minecraft to take this class.** Tablet, phone, and game console versions of Minecraft are not compatible. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.*  [Purchase Minecraft Java Edition]

**Course:** YTH134  **5 Sessions, Online**
$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**
CRN#: 46868  M,T,W,R,F  6/8-6/12  1:30 - 4:30 p.m.
CRN#: 16446  M,T,W,R,F  8/10-8/14  9:30 am – 12:30 p.m.

**Grades 6-8**
CRN#: 46872  M,T,W,R,F  6/8-6/12  9:30 am – 12:30 p.m.
CRN#: 16461  M,T,W,R,F  8/10-8/14  1:30 - 4:30 p.m.

**Pokémon® Masters: Designers & 3D Makers Unite!**
Calling all boys and girls who want to be the designers of the future! In this class, if you can dream it, you can make it! Begin by creating your own digital Pokemon-style custom playing card game. Progress onto designing action figures, jewelry, and toys in professional-level modeling software. Learn how to prepare a model for 3D printing and create a design portfolio to showcase your work! No prior experience is necessary and 3D designs will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.*

**Course:** YTH207  **5 Sessions, Online**
$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**
CRN#: 16386  M,T,W,R,F  7/13-7/17  1:30 - 4:30 p.m.

**Grades 6-8**
CRN#: 16387  M,T,W,R,F  7/13-7/17  9:30 am – 12:30 p.m.

**Python Programmers**
Want to learn the world’s fastest-growing programming language favored by Google, NASA, Youtube, and the CIA? Learn how to code with Python to create engaging apps and games. Each lesson takes you step-by-step on a programming path that will let you challenge friends with fun content you create from start to finish! Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*$10 license fee per student with this class is included in the fees.*

*Compatible with MAC, Windows and Chrome OS.*

**Course:** YOU992  **5 Sessions, Online**
$125 + $35 fee = $160; Non-MD residents add $25

**Grades 3-5**
CRN#: 46797  M,T,W,R,F  6/22-6/26  9:30 am – 12:30 p.m.
CRN#: 15498  M,T,W,R,F  8/3-8/7  9:30 am – 12:30 p.m.

**Grades 6-8**
CRN#: 46974  M,T,W,R,F  6/22-6/26  1:30 - 4:30 p.m.
CRN#: 15499  M,T,W,R,F  8/3-8/7  1:30 - 4:30 p.m.
**ROBLOX® Coders & Entrepreneurs!**
Discover how to code in the Lua language while playing and designing worlds in ROBLOX®, an online universe where you can create anything you dream of. This new class combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate ROBLOX’s fast-growing marketplace to publish their games. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*$10 license fee per student with this class, included in fees*
*Compatible with MAC and Windows OS only.*
Course: YOU989  5 Sessions, Online
$125 + $35 fee = $160; Non-MD residents add $25
Online Course

**Grades 3-5**
CRN#: 46747  M,T,W,R,F  6/15-6/19  1:30 - 4:30 p.m.
CRN#: 16450  M,T,W,R,F  7/27-7/31  9:30 am – 12:30 p.m.

**Grades 6-8**
CRN#: 16451  M,T,W,R,F  7/27-7/3  1:30 - 4:30 p.m.

**ROBLOX® Makers**
Unlock the power of ROBLOX® Studio, the world creation tool used by real-world ROBLOX® developers! Learn how to build 3D models and create an adventure in your ROBLOX® world. Bring characters to life with unique animations you design. Student-created projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*Compatible with MAC and Windows OS only.*
Course: YTH208  5 Sessions, Online
$125 + $25 fee = $150; Non-MD residents add $25
Grades 3-5
CRN#: 46754  M,T,W,R,F  6/8-6/12  1:30 - 4:30 p.m.

Grades 6-8
CRN#: 46756  M,T,W,R,F  6/8-6/12  9:30 am – 12:30 p.m.
**Rocket Kart Racers: Design A Mario Kart® Style Game**

On your marks, get set, create! Blast off in making your first 3D Mario Kart® and Crash Team Racing® style game! Design your own tracks and customize your karts and characters. Using a professional 3D game development software, students will combine their creations into their own kart racing game that they can play with friends and family at home. Students can participate in eSports League races against other schools across the country with a chance to have their tracks featured in the Black Rocket master build of the game! Student projects will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

*This requires a 64-bit operating system.*

*Compatible with MAC and Windows OS only.*

Course: YTH139  
5 Sessions, Online

$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**

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**Grades 6-8**

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<td>9:30 am – 12:30 p.m.</td>
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**Video Game Animation**

Take your game design skills to the next level by creating and animating your own character sprites, objects, and backgrounds. Start with a name, develop the character’s personality, signature moves, special powers, and a storyline. Finish with a fully animated character to be used in your very own game. Students do not need any prior experience in game design, animation, or sketching. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers; Mac versions can be created after the program for $15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

*Compatible with Windows OS only.*

Course: YOU838  
5 Sessions, Online

$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**

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**Grades 6-8**

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<td>8/3-8/7</td>
<td>9:30 am – 12:30 p.m.</td>
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Virtual Reality: The Future is Now
Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own virtual worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family.

*There is an additional $11 lab fee per student for the VR Headset and it is included in the fees.

*Compatible with MAC, Windows and Chrome OS.

Course: YOU835 5 Sessions, Online
$125 + $35 fee = $160; Non-MD residents add $25

**Grades 3-5**

**Grades 6-8**
CRN#: 15592  M,T,W,R,F  8/17-8/21  1:30 - 4:30 p.m.

YouTube® Content Creators
Find your voice and leave your mark on the world! Whether you are six or sixty, it’s time to start a career as the next YouTube star. Explore the variety of content and personalities that exist on YouTube and how to find your own niche. Learn the Dos and Don’ts of the platform and how to practice good digital citizenship. Develop your on-camera presence, your own channel branding, and professional editing skills. Take home a plan for launching your own channel with the content created in class! Student projects will be available on a password protected Black Rocket website to share with friends and family. Students work in pairs or teams for most of the program.

*A webcam is required for this course.

*Compatible with MAC and Windows OS only.

Course: YTH209 5 Sessions, Online
$125 + $25 fee = $150; Non-MD residents add $25

**Grades 3-5**
CRN#: 16405  M,T,W,R,F  6/29-7/3  1:30 - 4:30 p.m.
CRN#: 16407  M,T,W,R,F  8/10-8/14  9:30 am – 12:30 p.m.

**Grades 6-8**
CRN#: 16406  M,T,W,R,F  6/29-7/3  9:30 am – 12:30 p.m.
CRN#: 16408  M,T,W,R,F  8/10-8/14  1:30 - 4:30 p.m.
Be Amazed, Be Amused, and Be Excited to see what life is like under the Big Top!

Come explore the world of a circus performer—the traditions and the feel of being under the Big Top. Take part in a non-competitive and challenging art form that combines physical activity with cultural arts. Activities include acrobatics, juggling, improvisation, spinning plates and other circus experiences. Improvements in hand/eye coordination, balance, and self-confidence are just some of the benefits of this camp.

Created by Michael Rosman, a graduate of Ringling Brothers & Barnum and Bailey Circus Clown College and veteran of many circus performances in both traditional American and Cirque style shows. Michael and his coaches have more than 20 years of experience teaching circus skills. Sneakers and comfortable clothing required.

Instructor: Michael Rosman’s Circus Camp Stars

Online format: Participants will have 90-minute sessions with a variety of coaches. Recorded videos will also be available for campers to watch over and over again to refine their skills.

Supplies: A supply kit with over $55 worth of materials will be sent to your home address. Please note: By registering this course, you are giving permission for Montgomery College to share your home address with a wholesale supplier for distribution of materials. The materials remain the property of the camper at the end of the session.

Course: YTH251 5 Sessions, Online
$125 + $55 fee = $180; Non-MD residents add $25
Grades 3-8
CRN#: 16554 M,T,W,R,F 8/10-8/14 10:30 a.m. – 12 p.m.
The Etiquette School of Maryland specialized in customized etiquette classes and seminars for children and teens. The Etiquette School of Maryland believes that understanding manners helps children build relationships, confidence and self-esteem – leading to increased opportunities and in their personal life.

**Modern Etiquette and Manners**

Would you like to have fun while learning the skills to boost your confidence, increase your self-esteem and develop leadership skills? If so, this is the camp for you! You will learn social skills, communication skills, and table manners that will help you succeed in the classroom, at home, with peers—in short, in life. Topics include shaking hands, eye contact, introductions, respect for self and others, making conversation, cell phone manners, social media, texting, common courtesies, thank-you notes, sportsmanship, image, dealing with differences, dining skills, table settings, styles of dining, and more! You will receive a handbook and certificate of completion. NOTE: Interviewing tips and public speaking techniques are also included in the program for high school students. Instructor: Etiquette School of Maryland

Campers must provide these supplies (not provided by MC or the Etiquette School of Maryland):

**Note: Substitutes are permitted - be creative! For example, you can use paper plates, plastic forks, etc. If you do not have a specific utensil, you can use a pencil in its place. These are only some ideas. If you need help thinking of substitutes, please contact the Youth Programs Office at YouthProgramsDirector@montgomerycollege.edu.**

- Notebook
- pencils
- Crayons (grades 1-2)
- Dinner plate
- Bread & butter plate
- Salad plate
- Bowl
- Glasses
- Dinner knife
- Salad knife
- Butter spreader or knife
- Dinner fork
- Salad knife
- Dessert fork
- Placemat
- Necktie (for boys grades 6-12)

**Course: YTH219**  **5 Sessions, Online**

$135 + $25 = $160; Non-Md. residents add $25

**Grades 1-2**

CRN#: 16483  M,T,W,R,F  7/6-7/10  10 am – 11:30 am

**Grades 3-5**

CRN#: 16484  M,T,W,R,F  7/13-7/17  10 am – 11:30 am

CRN#: 16485  M,T,W,R,F  8/3-8/7  10 am – 11:30 am

**Course: YTH220**  **5 Sessions, Online**

$165 + $25 = $190; Non-Md. residents add $25

**Grades 6-8**

CRN#: 16486  M,T,W,R,F  7/6-7/10  1-3 p.m.

CRN#: 16487  M,T,W,R,F  7/13-7/17  1-3 p.m.

**Grades 9-12**

CRN#: 16488  M,T,W,R,F  8/3-8/7  1-3 p.m.

CRN#: 16489  M,T,W,R,F  8/10-8/14  1-3 p.m.
**Future Resource Learning** courses provide grade appropriate activities that enable students to explore their personalities, necessary skill sets, and educational directions in pursuing a specific career or trade. Through a project-based curriculum, students are fully engaged in the active learning process. The goal is to establish a classroom environment that breeds teamwork, communication, and critical thinking.

We help students see the relevance of what they are learning and its connection to future opportunities and achievement of life goals. This will serve students in realizing not only their post-high school goals but also in other areas of their lives.

**Campers must provide these supplies (not provided by MC or Future Resource Learning):** A tablet or computer is recommended. While viewing is available on a mobile phone, the interaction is not as reliable.

**Online format:** Live instruction via Newrow Video Conferencing. Parents do not need to download the program, just click on the link provided.

**Digital Abstract Art**
In this digital painting class, you will learn how to create abstract artworks utilizing geometric forms. The emphasis will be on fundamental concepts such as form, composition, figure-ground relationships, and space.

**Course:** YTH156
**5 Sessions, Online**
$100 + $50 fee = $150; Non-Md. residents add $25

**Grades 6–8**
**CRN#: 15693**
**M,T,W,R,F 7/27–7/31 1 - 4 p.m.**

**Digital Illustration**
Learn how to create a series of illustrations using basic drawing fundamentals and fun digital tools. Lessons will cover animations, environments, postcards, and more using Sketchpad 4.1 and drawing tablets.

**Course:** YTH158
**5 Sessions, Online**
$100 + $50 fee = $150; Non-Md. residents add $25

**Grades 6–8**
**CRN#: 15695**
**M,T,W,R,F 8/3–8/7 1 - 4 p.m.**

**Introduction to Graphic Design**
Learn to use digital tools along with your artistic skills to work with page layouts, photographs, web page design, animations, illustrations and more!

**Course** YTH159
**5 Sessions, Online**
$100 + $50 fee = $150; Non-Md. residents add $25

**Grades 6–8**
**CRN#: 15696**
**M,T,W,R,F 7/13–7/17 1 - 4 p.m.**
**Visual Arts (Digital Arts)**
You will be introduced to visual art practices, including drawing and painting, sculpture, printmaking, photography, conceptual and installation art, video art, earthworks, and performance art, as well as craft and graphic design.

**Course: YTH183  5 Sessions, Online**
$100 + $50 fee = $150; Non-Md. residents add $25

**Grades 6–8**

**Campers must provide these supplies (not provided by MC or Future Resource Learning):** A tablet or computer is recommended. While viewing is available on a mobile phone, the interaction is not as reliable. A complete list of supplies required for each session will be given to the parents approximately one week before the first day of the session.

**Online format:** Live instruction via Newrow Video Conferencing. Parents do not need to download the program, just click on the link provided.

**Future Chefs**
Are you looking to develop, build upon and sharpen your culinary skills? Then Future Chefs is for you! Planned around a weekly theme, each class is an entirely new experience that incorporates culinary skills that build over time into more complex food preparation and presentation.

**Course: YTH252  8 Sessions (note: two sessions per week, for four weeks), Online**
$100 + $50 fee = $150; Non-Md. residents add $25

**Grades 3–8**
CRN#: 16557  T,R  6/23-7/16  10:30 a.m. – 12 p.m.
CRN#: 16558  T,R  6/23-7/16  2 – 3:30 p.m.
CRN#: 16556  T,R  7/21-8/13  10:30 a.m. – 12 p.m.
CRN#: 16560  T,R  7/21-8/13  2 – 3:30 p.m.
Join the **MC Engineers** at Montgomery College. Under the guidance of Professor Monica Mellini, the MC Engineers will guide students in hands-on engineering opportunities. MC Engineers, a collaboration between Montgomery College engineering faculty and students, has designed a series of youth courses intended to provide authentic engineering experiences for all participants, students and instructors alike.

Each course combines instructional segments with youth-led design objectives similar to the engineering design activities of Montgomery College students in their own engineering courses.

**CarBots / CatBots**

Introductory robotics class with a fun twist. This tiny robot has a dual personality: car or cat, it's up to you! Decorate your robot any way you want. The brain of the 'bot is the British micro:bit controller, a great introductory platform for new robot enthusiasts. The carbot/catbot is easy to assemble with a screwdriver. Code your robot using a web-based drag and drop editor, ideal for beginners. No prior programming experience is required. Swap out the robot's modules for different activities: line following, sonar object avoidance, or even a rolling light show! Recommended supplies at home: Computer with USB port.

**Campers must provide these supplies (not provided by MC):** A computer with USB port. A piece of foam board or cardboard to create a track for the robot is required at home.

**Additional materials provided by MC:** A materials kit that includes, a micro:bit Go Bungle, a Buggie Car Robot a kittenbot silicon sleeve, an accessory kit and tape will be available for curbside pick up approximately one week prior to camp. The materials remain the property of the student after camp.

**Online format:** Live instruction via Zoom.

**Course:** YTH253 **5 Sessions, Online**

$180 + $75 fee = $255; Non-Md residents add $25

**Grades 6–8**

CRN#: 16595  M,T,W,R,F  7/20–7/24  9 a.m.–12 p.m.

**Cubic Creations**

Create your own three-dimensional light sculpture using laser-cut acrylic boards and glue sticks as light diffusers! Plug in a Circuit Playground board, and you can program your sculpture to display infinitely variable colors and patterns. The entire sculpture is assembled with simple hand tools; a small screwdriver and hot glue gun are included with your project kit. Write the light show code in a web-based editor then upload it to the board using the provided USB cable. Recommended supplies at home:

**Campers must provide these supplies (not provided by MC):** Computer with USB port.

**Additional materials provided by MC:** A materials kit that includes a circuit playground express base kit, bolt on kit, 20 LED NeoPixel dots strand, picket screwdriver, acrylic panels (will be precut), mini glue gun, glue sticks and a set of stand-offs and screws.

**Online format:** Live instruction via Zoom.

**Course:** YTH254 **5 Sessions, Online**

$180 + $75 fee = $255; Non-Md residents add $25

**Grades 6–8**

CRN#: 16596  M,T,W,R,F  7/27 – 7/31  9 a.m. 12 p.m.
Soft Circuits: Making Programmable Wearables or Stuffed Toys

Start with a 40-inch strand of 20 Neopixel dots, like colorful electronic jewelry. Power it with the versatile Circuit Playground board, and you have the ingredients for a summer of soft circuit fun! The Neopixel strand fastens to the processor and can be programmed with any combination of colors or patterns, like a light show on your tee shirt, teddy bear, or tote bag! The 2-inch Circuit Playground disk has a variety of built-in sensors, push buttons, ten more Neopixels, and even an amplifier and speaker, so your project has as many possibilities as your imagination. Build your code in a web-based editor then upload it to the Circuit Playground using the provided USB cable. Rechargeable battery included to power your creation.

Campers must provide these supplies (not provided by MC): A computer with a USB port, needle and thread (if you choose to sew on the NeoPixel strand) or a glue gun (to attach the NeoPixel strand). The piece of clothing that you wish to alter. Examples include but are not limited to a hat, shirt or tie. Students can also alter a stuffed animal. The choices are unlimited!

Additional materials provided by MC: A materials kit that includes a circuit playground express base kit, bolt on kit, LiPo battery 400 mAh, pocket screwdriver, 20 LED NeoPixel dots strand, alligator test leads.

Online format: Live instruction via Zoom.

Course: YTH255 5 Sessions, Online
$180 + $75 fee = $255; Non-Md residents add $25

Grades 6–8
CRN#: 16597 M,T,W,R,F 7/13–7/17 9 a.m.12 p.m.
Middle School and High School Skills for Success with Don Milner

Don Milner returns with his very popular classes full of helpful hints and strategies to be a success in middle school and/or high school. Don Milner is a 18 year veteran Team Leader and Content Specialist. He has helped hundreds of students learn how to succeed in the SOS/Aggressive Learning Courses. Each class includes an optional parent’s session for free. His program has been awarded the Nancy Dworkin Award for Outstanding Service to Youth in Montgomery County.

Campers must provide these supplies (not provided by MC or Milner Educational Consultants): Paper and pencil
Online format: Instructor will use BlackBoard with live instruction via Zoom.

For questions, please visit www.milneredconsulting.com or contact Don Milner at: miiillneredconsulting@gmail.com

College Applications 101: How do I apply to College?
Getting ready for college is a big deal. Making an informed decision about where you plan to go is important and having a good life coach to help you narrow your choices can’t hurt. College Apps 101 is a course designed to guide you through the college application process.

Course: YTH153 5 Sessions, Online
$200 + $35 fee = $235; Non-Md. residents add $25
Grades: Rising 10th, 11th, and 12th grade only

Study Skills 101
Learning good study habits now will lay the groundwork for successful work habits as an adult. Study Skills 101 is designed to provide background knowledge, resource materials, and suggestions that will relieve academic distress and help you optimize your success as a lifelong learner. This course is academic relief at your fingertips! Learn to use academic and practical tools to increase your likelihood for success, including organizational tools, time management techniques, test preparation and test- taking strategies, note-taking guidance, and personal responsibility tips.

Course: YTH144 5 Sessions, Online
$200 + $35 fee = $235; Non-Md. residents add $25
Grades 6–8
CRN#: 15663 M,T,W,R,F 7/6 – 7/10 5 – 7 p.m.

Grades 9-12
CRN#: 15665 M,T,W,R,F 7/20 – 7/24 5 - 7 p.m.
CRN#: 15666 M,T,W,R,F 7/27 – 7/31 5 - 7 p.m.
CRN#: 15667 M,T,W,R,F 8/3 – 8/7 5 – 7 p.m.
**SLAM the Exam HSPT**

The HSPT (High School Placement Test) is the entrance exam required for most Catholic High Schools affiliated with the Archdiocese of Washington. It is required of 8th graders who wish to attend Catholic High School. In SLAM the Exam HSPT, you will receive an help preparing for the exam, and develop a study plan leading up the Fall assessment.

**Course: YTH256 5 Sessions, Online**  
$165 + $35 fee = $200; Non-Md. residents add $25  

**Grades Rising 8th Graders**  
Faculty members from Yang Academy have worked with the Montgomery College Youth program since 2003, taught math and science classes to over 1,000 students who come from throughout the US and many countries around the world. Our half-day camps/classes offer many fun activities with much learning built in.

**Online format:** Instructors will use BlackBoard with live instruction via Zoom.

For more information about our camps, please contact Zenia Yang, zyang2@yangacademy.com.

*Please note: Grades listed are as of fall 2020*

**Algebra 1**
For students who will take algebra 1 in the upcoming school year. Topics covered include factoring, linear and quadratic equations, higher–order polynomials, inequalities, absolute values, and application problems.

**Course:** YOU879  
5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

**Grades 6–8**

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**Algebra 2**
For students who will take algebra 2, honors algebra 2, or AAF in the upcoming school year. Topics include the concept of a function, coordinates in a plane, straight lines, circles, parabolas, and application problems. Skills involving fractions and factoring are reinforced.

**Course:** YOU883  
5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

**Grades 9–12**

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Biology
For students who will take biology or honors biology in the upcoming school year. Topics from major branches of biology will be covered: ecology, cell biology, genetics, and impact modern technology has made in the field of biology.

Course: YOU897 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 9–12
CRN#: 16538 M,T,W,R,F 8/3–8/7 1–4 p.m.

Calculus
For students who will take AP calculus (AB or BC) or honors calculus (calculus with applications) in the upcoming school year. Topics covered include continuity, limits, definition of derivatives, rules of differentiation, and applications of differentiation.

Course: YOU888 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 9–12
CRN#: 16537 M,T,W,R,F 8/10–8/14 9 a.m.–12 p.m.

Chemistry
For students who will take chemistry or honors chemistry in the upcoming school year. Topics covered include unit analysis, atomic structure, periodic table of elements, chemical reactions and equations, molar relationships, and stoichiometry.

Course: YOU898 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 9–12
CRN#: 16589 M,T,W,R,F 8/3–8/7 9 a.m.–12 p.m.

Creative Writing Workshop
In a relaxed environment, you will tap into your creative ability, reinforce your knowledge of written English skills, and practice creative choices of vocabulary and structure through brainstorming, free-writing, and book discussions.

Course: YOU903 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 3–5
CRN#: 16590 M,T,W,R,F 7/20–7/24 1–4 p.m.
CRN#: 16591 M,T,W,R,F 8/3–8/7 1–4 p.m.

Grades 6–8
CRN#: 16592 M,T,W,R,F 7/13–7/17 1–4 p.m.
CRN#: 16593 M,T,W,R,F 7/27–7/31 1–4 p.m.
CRN#: 16594 M,T,W,R,F 8/10–8/14 1–4 p.m.
Geometry
For students who will take geometry, honors geometry, or magnet geometry in the upcoming school year. Topics covered include properties of two- and three-dimensional geometric shapes and development of mathematical arguments about geometric relationships.

Course: YOU880 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 6–8
CRN#: 15439 M,T,W,R,F 7/13–7/17 9 a.m.–12 p.m.
CRN#: 15440 M,T,W,R,F 7/20–7/24 1–4 p.m.
CRN#: 15441 M,T,W,R,F 7/27–7/31 9 a.m.–12 p.m.
CRN#: 15442 M,T,W,R,F 8/3–8/7 1–4 p.m.
CRN#: 15443 M,T,W,R,F 8/10–8/14 1–4 p.m.

Physics
For students who will take physics, honors physics, or AP physics 1 in the upcoming school year. Topics covered include kinematics in one or two dimensions, motion and force, Newton’s Laws of Motion, circulation motion, work and energy, and linear momentum.

Course: YOU899 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 9–12
CRN#: 15456 M,T,W,R,F 7/27–7/31 9 a.m.–12 p.m.

Pre-Algebra 1
For students who have not completed algebra and will be taking Algebra 1 in the fall. Topics covered include the real number system, operations of integers, fractions, and decimals, Prime factorization, least common multiple, greatest common factor, grouping symbols), translating phrases to mathematical expressions and sentences to mathematical equations, absolute value, and solving simple one-variable equations and applications problems.

Course: YOU963 5 Sessions, Online
$170 + $50 fee = $220; Non-Md. residents add $25

Grades 3–5
CRN#: 45973 M,T,W,R,F 6/22–6/26 9 a.m.–12 p.m.
CRN#: 15481 M,T,W,R,F 7/20–7/24 9 a.m.–12 p.m.
CRN#: 15482 M,T,W,R,F 8/3–8/7 9 a.m.–12 p.m.
CRN#: 15483 M,T,W,R,F 8/10–8/14 9 a.m.–12 p.m.
**Pre-Algebra 2**
For students who have completed Pre-Algebra 1 and may be enrolled in IM in the fall. Topics covered include notation and simplest rules of procedure, integral exponents, roots and radicals, fractional exponents, and application problems.

**Course:** YOU984  
**5 Sessions, Online**
$170 + $50 fee = $220; Non-Md. residents add $25

**Grades 6–8**

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**Pre-Calculus**
For students who will take pre-calculus, honors pre-calculus, IB Math Studies in the upcoming school year. Topics covered include review of background information from geometry and algebra for trigonometry, radian measure for angles, trigonometric functions, special trigonometric values for sine, cosine, and tangent, graphs of trigonometric functions, and their applications.

**Course:** YOU887  
**5 Sessions, Online**
$170 + $50 fee = $220; Non-Md. residents add $25

**Grades 9–12**

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