



**SUMMER  
ENRICHMENT  
PROGRAM**

**WILLIAM & MARY CENTER FOR GIFTED EDUCATION**

**\$150 per course Summer 2022**



## **Summer SEP 2022**

**Week 1:** June 20th—June 24th

**Week 2:** June 27th— July 1st

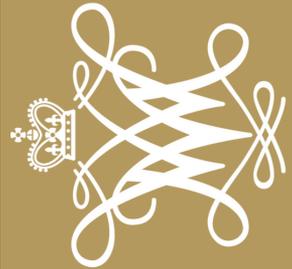
\*Each week will have a morning & afternoon session.\*

10AM—12PM & 1PM—3PM

**Virtual Enrichment Courses**  
**All classes will be held via**  
**Zoom**

**William & Mary  
School of Education**

CENTER FOR GIFTED EDUCATION



# Center for Gifted Education

Established in 1988, the Center for Gifted Education (CFGE) at William & Mary is a learning community that values and fosters the talent development process and optional functioning of high-ability individuals over their lifespan.

## Summer Enrichment Programs

William & Mary's SEP is an academically challenging program with an emphasis on inquiry-based learning for students enrolled in grades K–12. The program is not meant to replace the regular school curriculum; rather, it recognizes the importance of allowing able children to explore additional specialized areas of science, mathematics, humanities, and the arts. Course activities are compatible with the expected achievement of high-ability students at specific grade and age levels.

Behaviors fostered by this program include the ability to:

- apply process skills used in individual field of inquiry,
- recognize problems and approaches to problem solving,
- understand and appreciate individual differences, and
- become a self-directed learner.

SEP is one of the precollegiate learner program offerings at William & Mary's Center for Gifted Education. We welcome all gifted learners, including those with disabilities. For more information about this program and other precollegiate programs, please contact the Center for Gifted Education at [sep@wm.edu](mailto:sep@wm.edu) or (757) 221-2166.



### PRECOLLEGIATE LEARNER PROGRAMS STAFF

Mihyeon Kim, Ph.D., Ed.D.  
Director, Precollegiate Learner Programs

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SEP Program Coordinator

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### PROGRAM TIMELINE

**March 2:** Registration for ALL CLASSES open.

**June 3:** Registration for ALL CLASSES close. Course assignment decisions made; classes that do not meet the minimum enrollment requirement will be canceled.

**June 7:** Deadline for payment of outstanding tuition balances.

**June 13:** Session schedules and information emailed to families.

**June 20:** Session 1 Classes begin.

**June 24:** Session 1 Classes end.

**June 24:** Session 2 Classes begin.

**July 1:** Session 2 Classes end.

AM Sessions: 10:00 am—12:00 pm

PM Sessions: 1:00pm—3:00pm

## Session 1: June 20th—June 24th

Morning Courses: 10:00 am—12:00 pm

**Want to Build Your Own App****Grades 2-3****Instructor:** Cindy Cattell

We use apps on our mobile devices every day to play games, learn, and communicate. Have you ever wanted to invent and build your own app? This coding course uses the App Lab in code.org to teach you how to design and code your own app. Students will use their creativity to code a functional app that runs on all mobile devices. Students will explore JavaScript and code events to create an interactive story or game that can be shared with family and friends. Students will practice digital citizenship, critical thinking skills, computer programming and creativity.

**Mason Jar Chemistry****Grades: 3-5****Instructor:** Colleen Ignacio

This course will focus on the magic of chemistry through hands-on mason jar science experiments! In this course students will learn about the scientific process, scientific measurements, the states of matter, elements, atoms, molecules and important chemists from the past. Students will also explore professions rooted in the sciences. Get your young chemist engaged with this phenomenal class!

**Life of an Architect****Grades: 3-5****Instructor:** Kim Hundley

Are you familiar with the works of Frank Lloyd Wright? Do you like exploring nature? Do you readily notice, colors, shapes or patterns in nature? Do you like to draw, color, or create things you see in nature? Do you feel you have a skill or talent for architectural design? If you answered yes to two or more of these questions, then this is the course for you. Who knows...you may be the next Frank Lloyd Wright of this century! **Note: Students need to have access to a printer.**

**Worth a 1,000 Words: Poetry****Grades: 3-5****Instructor:** Dr. Renee Kingan

Learn how to transform your original writing into powerful presentations that amplify your voice and move people's minds. In this course, students will plan, write, and create original videos using hardware and software you already have at home. Writing activities will help you develop your written voice through vividly descriptive creative language. Video production activities include understanding copyright and fair use, storyboarding, voice-over recording, basic animation techniques, and best practices for live-action filming. Whether you're an avid writer or you are looking for new ways to express yourself, there's something here for everyone!

**Instructor's note:** These sessions of WATW will focus on writing poetry, so students who attended previous sessions of this course are invited to enroll again if you would like to gain more experience creating videos and writing in different genres. Video production resources build on those presented in previous sessions, and the mini-lesson activities present writing techniques specific to each genre. Consider this an opportunity to branch out into a new production method OR to take a deeper dive into software you've used before. Students also have the option to receive individualized instructor support for personal-interest projects in other writing genres.

**Engineering at Home: The Next Level****Grades: 4-5****Instructor:** Pennie Brown

This class is designed for students who have had a level one experience, but open to any student who has not taken "The Next Level". In this three session class, the students will continue to create, model and test their solutions to more complex engineering challenges. Students will build upon previous experiences by using new materials with previously introduced challenges. Students may find that a familiar problem presents differently using varied materials. Students will use problem-solving techniques to solve these challenges.

**Note: Participants will need to have various household materials available weekly. Information will be provided by the instructor in the course welcome letter.**

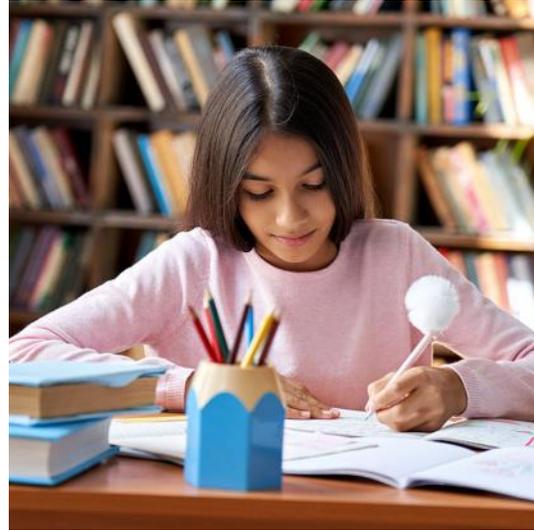


## Session 1: June 20th—June 24th

Morning Courses: 10:00 am—12:00 pm

**Create Your Own Pop Up Book****Grades:** 5-6**Instructor:** Jennifer Callison

Dragons snap off the page to bite you. Bullies snatch lunch money out of paper pockets. Everyday kids transform into superheroes with the slide of a tab. These are just a few of the ideas you can bring to life when you create your own pop-up book during this course. Choose your genre, your characters, and the style of your book. You're in charge! Get ready to write and craft your way to a fun story-telling hour with your peers.

**Code and Create Game Apps****Grades:** 4-6**Instructor:** Sue Sydow

Have you ever wondered how games were created? Are you interested in learning to code using blocks, Python or JavaScript? This coding course uses Microsoft Make Code to teach you how to design and code your own game using blocks and JavaScript. Get ready to problem solve like a sleuth and debug like a programmer. You will work with others to enhance your game and create multiple levels of fun!

**Personal Development through Digital Storytelling****Grades:** 4-6**Instructor:** Claire Brantley

Do you want to develop your personal strengths through the power of reading, writing, investigating, and multimedia platform? We'll look for clues we can use to be our best hidden inside stories of characters who never give up. We'll design creative "how-to" manuals for kids' most common problems. And we'll utilize a digital tool to produce our own inspiring stories in a cool take-home format to share with others. **Note: The instructor will guide parents in setting up a free trial of Storybird to use during the course.**

**The Creative Process: Acting Techniques & Processes****Grades:** 6-8**Instructor:** Linda Gallant

Interested in giving acting a try? Love theater and want to learn more? Using multiple acting techniques we will explore the development of a written character. The course will include an introduction to script analysis, improvisation, and incorporate concepts/ activities from multiple acting techniques. Come join us, it will be fun!

## Session 1: June 20th—June 24th

Afternoon Courses: 1:00pm—3:00pm

**Six Simple Machines****Grades:** 2-3**Instructor:** Pennie Brown

The six simple machines seem like a simple concept, but they are instrumental at improving our lives every day. From wheels and axles to inclined planes, they appear in all forms of simple tasks and challenges. You can find them just about anywhere. They are in your bedroom, in the kitchen as well as in the garage or in your storage shed. When you combine two or more of them, you get a compound machine that can further ease our everyday tasks. Let's explore the six simple machines and find out just how amazing they are. **Note:**

**Students will need a spiral notebook, markers/crayons, pens and pencils and plain and lined paper for class activities.**

**Various household items will be used to study.**

**Create Your Own Pop Up Book****Grades:** 3-4**Instructor:** Jennifer Callison

Dragons snap off the page to bite you. Bullies snatch lunch money out of paper pockets. Everyday kids transform into superheroes with the slide of a tab. These are just a few of the ideas you can bring to life when you create your own pop-up book during this course. Choose your genre, your characters, and the style of your book. You're in charge! Get ready to write and craft your way to a fun story-telling hour with your peers.

**Computer Science: Intro to Coding****Grades:** 3-4**Instructor:** Sue Sydow

Are you in 3rd or 4th grade and interested in learning to code using blocks, Python, or JavaScript? Let's learn together through creating our own apps and games. We will explore blocks and JavaScript. This is an intro course that will get you hooked on coding! By the end of the course, you will have your own personal game to share with friends and family. It's your time to problem solve like a sleuth and debug like a programmer. Let's do this!

**The Creative Process– Devised Theatre****Grades:** 3-5**Instructor:** Linda Gallant

Who wants to come to the theater and try their hand in acting? In this course, we will use multiple improvisational activities and processes to devise a story and create characters to be presented. Finally, what's theater without a performance? Join us, you'll love it!

**Want to Build Your Own App****Grades:** 4-5**Instructor:** Cindy Cattell

We use apps on our mobile devices every day to play games, learn, and communicate. Have you ever wanted to invent and build your own app? This coding course uses the App Lab in code.org to teach you how to design and code your own app. Students will use their creativity to code a functional app that runs on all mobile devices. Students will explore JavaScript and code events to create an interactive story or game that can be shared with family and friends. Students will practice digital citizenship, critical thinking skills, computer programming and creativity

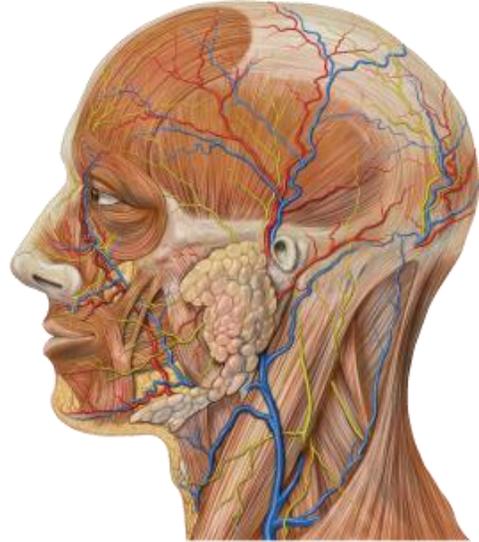


## Session 1: June 20th—June 24th

Afternoon Courses: 1:00 pm—3:00 pm

**The Human Body: A Series for Middle School!****Grades: 6-8****Instructor: Colleen Ignacio**

This course will focus on the structure & function of the human body, a marvelous machine! In this course, your student will gain an understanding of the basic anatomy & physiology, the body systems, & the jobs they perform. Students will understand how we think, communicate, grow, move, reproduce, & stay alive. Additionally, your student will learn about major disorders, recent medical advances & ways to take care of their bodies. Get your student engaged with the fascinating class!

**Introduction to Social Science****Grades: 6-8****Instructor: Claire Brantley**

Ever wonder why people do the things they do? The purpose of this course is to help students use their strengths in science to tackle complex social questions. During these five sessions, your child will build their knowledge base of social research methods and human behavior from the study of both classic and recent social experiments. Students will engage in group discussion to share input and hear others' ideas on course material, and imagine how they can use what they've learned to make a positive impact in their social spheres of influence.

**Block by Block: Introduction to Multi-Screen Music Video Production****Grades 7-9****Instructor: Dr. Renee Kingan**

Learn fundamental audio and video editing techniques as you create a multi-track, multi-screen music video to share with your family and friends. No prior musical experience is required, as student-driven instruction will include tutorials for creating original music videos for existing songs, student-arranged cover tunes, and original compositions ranging from 2 to 16 voices/screens. Students will learn about copyright and fair use as you dive into basic multitrack audio editing and easy multiscreen video editing. All activities will make use of free software for desktop and mobile platforms including Audacity, iMovie, MovieMaker, and OpenShot. Once you learn the building blocks of audio and video editing, the sky's the limit.

## Session 2: June 27th—July 1st

Morning Courses: 10:00am—12:00pm

**Six Simple Machines****Grades:** 2-3**Instructor:** Pennie Brown

The six simple machines seem like a simple concept, but they are instrumental at improving our lives every day. From wheels and axles to inclined planes, they appear in all forms of simple tasks and challenges. You can find them just about anywhere. They are in your bedroom, in the kitchen as well as in the garage or in your storage shed. When you combine two or more of them, you get a compound machine that can further ease our everyday tasks. Let's explore the six simple machines and find out just how amazing they are. **Note:** Students will need a spiral notebook, markers/crayons, pens and pencils and plain and lined paper for class activities.

Various household items will be used to study.

**Habitat Helpers****Grades:** 3-5**Instructor:** Brandy Metzger

Do you love animals? Are you interested in coming up with ideas that could help animals that are endangered? In this course you will embark on a journey across the planet to learn about 5 different endangered species. First, you will uncover the hardships these animals face that put them at risk. Next, you will work as a team to determine possible solutions to their declining numbers. Finally, you will work to create prototypes of your innovations with simple items from your home. Get ready to spark up your imagination and become an environmental visionary!

**The Adventures of Your Brain****Grades:** 4-6**Instructor:** Claire Brantley

Amygdala, prefrontal cortex, neuron, oh my! The brain is vast and complex; this course will focus on social brain functions. Come learn about the human brain through games, skits, text, and more. By the end of this course, students will be able to define each of these brainy words and their important functions in our body. Furthermore, your child will stretch their creativity as they create characters and a story to demonstrate their understanding of what's going on up there. We will use a fun digital platform to create our final product! This is a great follow up to Personal Development through Digital Storytelling, but each class can also stand alone.

**Campaign for a Cause****Grades:** 5-6**Instructor:** Jennifer Callison

What issue are you most passionate about? Do you get fired up about topics involving the environment, education, politics, or social justice? Here's your chance to channel and communicate that enthusiasm. During this course, you'll have the opportunity to investigate your problem, tracking down only the most updated, reliable, and unbiased sources. You'll then build an entire campaign to promote and showcase your message, using online digital design and publishing tools. Choose among many different formats, from posters to Instagram posts to postcards, from infographics to flyers. Come join us, and together we'll brainstorm, research, create, and present, carrying your cause to new heights for the world to see. **Note:** One of the main tools used during this course is Canva, with a free online membership requiring a student email address or permission to use a parent email address.



## Session 2: June 27th—July 1st

Morning Courses: 10:00 am—12:00pm

**Computer Science: Intro to Coding****Grades:** 5-6**Instructor:** Sue Sydow

Are you in 5th or 6th grade and interested in learning to code using blocks, Python, or JavaScript? Let's learn together through creating

our own apps and games. We will explore blocks and JavaScript. This is an intro course that will get you hooked on coding! By the end of the course, you will have your own personal game to share with friends and family. It's your time to problem solve like a sleuth and debug like a programmer. Let's do this!

**The Poetry Place (Mythology)****Grades:** 5-7**Instructor:** Michelle Hudgins

Mythology goes with poetry just as well as it goes with the Percy Jackson books. In fact, this intriguing topic has offered poets inspiration for years. In this course, students will read and discuss poetry inspired by the mythology of diverse cultures. Students will also create their own poems that incorporate elements of mythology through the introduction of short prompts, videos, and interactive activities. It won't take long to see how mighty your verses can be with these stories as a foundation!

**The Extraordinary Mind: A Series for Middle School****Grades** 6-8**Instructor:** Ignacio Colleen

This course will focus on the structure & function of the human body, a marvelous machine! In this course, your student will gain an understanding of the basic anatomy & physiology, the body systems, & the jobs they perform. Students will understand how we think, communicate, grow,

move, reproduce, & stay alive. Additionally, your student will learn about major disorders, recent medical advances & ways to take care of their bodies. Get your student engaged with the fascinating class!

**Worth a 1,000 Words: Persuasive Writing****Grades:** 7-9**Instructor:** Dr. Renee Kingan

Learn how to transform your original writing into powerful presentations that amplify your voice and move people's minds. In this course, students will plan, write, and create original videos using hardware and software you already have at home. Writing activities will help you develop your written voice through vividly descriptive creative language. Video production activities include understanding copyright and fair use, storyboarding, voice-over recording, basic animation techniques, and best practices for live-action filming. Whether you're an avid writer or you are looking for new ways to express yourself, there's something here for everyone! **Instructor's note:** These sessions of WATW will focus on writing persuasive speeches, so students who attended previous sessions of this course are invited to enroll again if you would like to gain more experience creating videos and writing in different genres. Video production resources build on those presented in previous sessions, and the mini-lesson activities present writing techniques specific to each genre. Consider this an opportunity to branch out into a new production method OR to take a deeper dive into software you've used before. Students also have the option to receive individualized instructor support for personal-interest projects in other writing genres.

## Session 2: June 27th—July 1st

Afternoon Courses: 1:00pm—3:00pm

**Code and Create Game Apps****Grades:** 2-3**Instructor:** Sue Sydow

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**Engineering at Home: The Next Level****Grades:** 4-5**Instructor:** Pennie Brown

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**Measurement in Social Science****Grades:** 6-9**Instructor:** Claire Brantley

**\*Prerequisite:** Introduction to Social Science\* Students who enjoyed learning about the strange world of social behavior with Ms. Brantley in previous enrichment sessions are invited to this second level course. We will uncover just how social researchers test and measure human outcomes. This course will stretch your child's investigative mind and include math and calculations. Students will even build and gather data for a measure of their own, as well as practice compiling and communication their findings to an audience.

**Campaign for a Cause****Grades:** 7-8**Instructor:** Jennifer Callison

What issue are you most passionate about? Do you get fired up about topics involving the environment, education, politics, or social justice? Here's your chance to channel and communicate that enthusiasm. During this course, you'll have the opportunity to investigate your problem, tracking down only the most updated, reliable, and unbiased sources.

You'll then build an entire campaign to promote and showcase your message, using online digital design and publishing tools. Choose among many different formats, from posters to Instagram posts to postcards, from infographics to flyers. Come join us, and together we'll brainstorm, research, create, and present, carrying your cause to new heights for the world to see. **Note: One of the main tools used during this course is Canva, with a free online membership requiring a student email address or permission to use a parent email address.**

**Worth 1,000 Words: Poetry****Grades:** 7-9**Instructor:** Dr. Renee Kingan

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**Mastering Microbiology****Grades:** 9-12**Instructor:** Colleen Ignacio

This dynamic and highly informative course is designed for students who may have an interest in microbiology and the healthcare sciences. Throughout the course, students will explore the scope of microbiology, infection and disease, infections of the body systems, microorganisms in the environment and their effects on human health and emerging infectious diseases. Students will also have an opportunity to conduct research in an area of microbiology they have curiosity about and present their findings to the class. Get your scientifically minded student engaged with this intriguing course!

# Program Information

Tuition: The tuition fee is \$150 (including a non-refundable \$25 registration fee) per course and is due before June 7, 2022.

Registration Deadline: June 3, 2022.

Minimum Course Enrollment: Approximately one month prior to the start of the session, the program staff will review course enrollment to ensure classes have met the minimum enrollment requirement. Parents/Guardians will be notified by email should a course be canceled.

Class Placement and Size: Class size will be limited to a maximum of 25 participants (with rare exceptions). Program staff will not process a participant's application until all required forms and the tuition have been received. Class assignments will be made once a complete application is received. If a student has selected a course that has already reached its maximum capacity, a staff member will contact the student's parent/guardian to discuss available options.

Course Withdrawals: Request to withdraw from a course must be made in writing prior to the start of the session. Registration fee is non-refundable. Tuition refunds will be provided for payments made minus the registration fee. Refunds for tuition will not be provided for withdrawals occurring after the start of the session.

Disability Accommodations: We accept all students with disabilities. If this affects your child, please contact the Program Coordinator to discuss the necessary accommodations.

Faculty: Courses are taught by a variety of talented instructors, including teachers of gifted and talented learners, faculty of William & Mary, and content-area professionals.

Discipline Policy: The expectation is that students will take responsibility for their own behavior and act appropriately during class to foster a positive learning environment for all students. If a student becomes disruptive, a warning will be issued to the student and parent/guardian on the day of the infraction. If the inappropriate behavior recurs in a second session, the child will be removed from class and may be removed from the program. If a child is removed from the program due to inappropriate behavior, a refund will not be provided.

Attendance & Video Recording of Lessons: Our courses are designed to be for the enrichment of minors via synchronous instruction to maximize the instructional benefits through interactions among peers and instructors. Therefore, neither the Center for Gifted Education nor the SEP instructors will be video recording the Saturday/Summer Enrichment Programs (SEP) as appropriate permissions are not in place. In the event a SEP session is missed, parents may request class materials, if available, from the Program Coordinator. Recordings of missed classes will not be provided.



# Admission Requirements

## Returning Participants

Completed program application form, all required documentation, and payment with the exception of test scores & student recommendation.

## New Applicants

### 1. Test scores

Students who have scored in the 95th percentile or above on a nationally normed aptitude or achievement test are eligible. Application test scores at the 95th percentile or better must be in at least one of the following areas: reading comprehension, vocabulary, language total, math total, math concepts, math problem-solving, science, social studies, or the composite. Contact your child's school to determine if it has participated in a qualified test (examples below) and if the scores may be made available to you.

### 2. Student Recommendation

3. Completed program application forms via [Campsite](#) and all required documentation.

4. Payment via [SEP Payment Portal](#)

## Examples of Accepted Nationally Normed Tests (this list is not exclusive):

American Testronics, Differential Ability Scales (DAS), Metropolitan Achievement Tests (MAT), Terra Nova (CTBS), SRA Brigance Basic Skills (Pre-K), Differential Aptitude Tests (DAT), Metropolitan Readiness Test, Cognitive Abilities Test, Stanford Achievement Test, California Achievement Tests, Iowa Tests of Basic Skills (ITBS), Ravens Progressive Matrices Naglieri Nonverbal Ability Test, Stanford-Binet Intelligence Scale, Kaufman Assessment Battery, National Tests of Basic Skills, Cognitive Assessment System (CAS), Kaufman Brief Intelligence Test (K-BIT), Otis-Lennon, Test of Language Development, Columbia Mental Maturity Test Kaufman Test of Educational Achievement (K-TEA), Peabody Individual Assessment Test, Universal Nonverbal Intelligence Test (UNIT), Comprehensive Inventory Basic Skills (CIBS), KeyMath, Wechler Intelligence Scale for Children (over age 6), Comprehensive Test of Basic Skills (CTBS), Kuhlmann-Andreson Measure of Academic Potential, Screening Assessment for Gifted Elementary and Middle School Students (SAGES-2), Wechler Preschool and Primary Scale of Intelligence Test (WPPSI-III) (under age 6), Comprehensive Testing Power (CTP) Leiter International Performance Scale, SAT, Wide Range Achievement Test, Degrees of Reading Power (DRP), Matrix Analogies Test (MAT), Slosson Intelligence Test (SIT)

Please contact **Shree Patel** in the Center for Gifted Education at [sep@wm.edu](mailto:sep@wm.edu) or **(757) 221-2166** for other accepted tests or any questions.