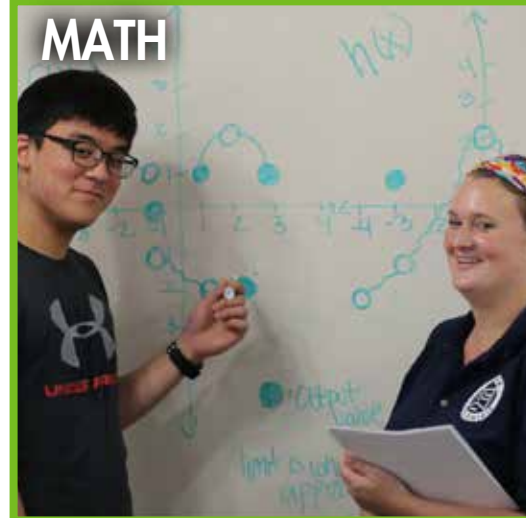


**FOR
RISING
GRADES 3-12**



**2024
SUMMER**

MATH



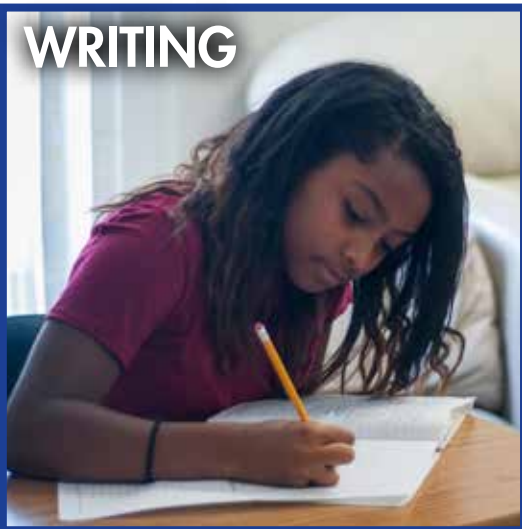
SCIENCE



**PUBLIC SPEAKING
AND FILMMAKING**



WRITING



**PROGRAMMING
AND TECHNOLOGY**



SAT AND TJ PREP



**FOURTEEN
HIGH SCHOOL LEVEL
COURSES**

**HAVE FUN
AND
LEARN!**

FAIRFAX COLLEGIATE SUMMER 2024

This summer your child can have fun and learn!

Since 1993, Fairfax Collegiate has provided challenging and engaging summer courses in math, writing, science, public speaking, test prep, computer science, filmmaking, and technology.

Courses are built around individual work, small-group instruction, and hands-on activities.

Classes meet in-person at locations throughout Northern Virginia and live online via Zoom, and typically enroll twelve students or fewer.

Summer instructors include undergraduate and graduate students at leading universities, as well as area public and private school teachers. They take into account each student's interests and needs, and students are able to get help at any time.

Fairfax Collegiate is Northern Virginia's largest and oldest summer enrichment program. Last year, students completed over 4,000 summer courses.

Register now to reserve your child's opportunity for academic and creative growth at Fairfax Collegiate!

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**FOURTEEN
HIGH SCHOOL LEVEL
COURSES**

SUMMER 2024 LOCATIONS

Ashburn

Loudoun School for Advanced Studies
20577 Ashburn Rd.

Chantilly

St. Timothy Catholic School
13809 Poplar Tree Rd.

McLean

Redeemer Lutheran Church
1545 Chain Bridge Rd.

Reston

Edlin School
10742 Sunset Hills Rd.

Tysons

BASIS Independent McLean
8000 Jones Branch Dr.

Online

We offer many of our courses live online via Zoom.



PROGRAM OVERVIEW

SUMMER 2024 SESSIONS AND HOURS

| Session | Start Date | End Date | Duration | In-Person | | Online | |
|-------------|------------|-----------|----------|-----------|----------|----------|----------|
| | | | | Half Day | Full Day | Half Day | Full Day |
| Session I | June 17 | June 28 | 10 days | \$550 | \$865 | \$315 | \$525 |
| Session II | July 1 | July 12 | 9 days* | \$500 | \$785 | \$285 | \$475 |
| Session III | July 15 | July 26 | 10 days | \$550 | \$865 | \$315 | \$525 |
| Session IV | July 29 | August 9 | 10 days | \$550 | \$865 | \$315 | \$525 |
| Session V | August 12 | August 16 | 5 days** | \$290 | \$460 | \$160 | \$265 |

*No class July 4

**Session 5 is one week long, rather than two.

| Hours | In-Person | Online |
|-------------------------|----------------------|----------------------|
| Morning Classes | 8:30 AM to 12:00 PM | 10:00 AM to 12:00 PM |
| Afternoon Classes | 12:30 PM to 4:00 PM | 1:00 PM to 3:00 PM |
| Supervised Lunch Period | 12:00 PM to 12:30 PM | |
| AM Extended Care* | 7:30 AM to 8:15 AM | |
| PM Extended Care* | 4:15 PM to 6:00 PM | |

*The fee for AM or PM Extended Care is \$100 per session or \$12 per day.

Siblings/Multiple Sessions
 Register siblings or for multiple sessions and save 5%
Early Registration
 Register and pay in full by March 15 to save 5%

SUMMER PROGRAM REGISTRATION

Online Registration

Plan your child's schedule and register online at fairfaxcollegiate.com

Grade Levels and Placement

Course grade levels are *rising grade levels*, the grade levels students will enter in the fall of 2024. Please contact us before enrolling a child in a course designated for older or younger students.

Registration Deadlines

We enroll students until classes are full. Many classes are full by early May. We maintain waiting lists for full classes.

Payment Options

A non-refundable deposit of \$100 per session (applied to the total cost of the program) is due at registration. The balance is due June 1.

Registration Changes

There is no fee for changing sessions, locations, or classes. (There may be a balance if the new class has a higher price.)

Cancellation Policy

For cancellations before June 1, Fairfax Collegiate will refund program fees less the non-refundable deposit of \$100 per session. After June 1, we will provide a credit for program fees paid for use by a family member in a future program.

Emergency Contact Form

For in-person classes there is a one-page *Emergency Contact and Permission Form*. There is no required health form.

Complete Participation Terms

Please visit fairfaxcollegiate.com/summer/participation-terms

QR Codes

The QR codes in this catalog link to the main subject and location pages on fairfaxcollegiate.com, which in turn link to individual pages for each course. These course pages contain a more detailed course description, a day-by-day syllabus, and the summer schedule for the course.

Start Here

The program overview is at fairfaxcollegiate.com/summer



Start Here!

MATH

Review the math you learned last year and get a head start on the upcoming year.

Students work individually through course topics at their own pace and may enroll for multiple sessions. There is an instructor for every six to eight students.

Each course features a diagnostic test, daily one-on-one coaching, small group instruction, enrichment activities and puzzles, and real-world applications.

Free Math Consultations

In-Person or Online

Meet us in-person or online, share your child's goals, and design a great summer math experience.

fairfaxcollegiate.com/math

Virginia Math 3-4

Grades 3-4

Keep math skills sharp over the summer.

Review, reinforce, and learn core Math 3 and Math 4 concepts at your own pace.

Topics include basic operations, fractions, decimals, measurement, geometry, and probability.

Advanced Math 3-4

Grades 3-4

Learn 5th and 6th grade math as a rising 3rd or 4th grader.

Topics include fractions, decimals, integers, geometry, perimeter and area, statistics, ratios and proportions, and algebra.

Virginia Math 5-6

Grades 5-6

Reinforce upper elementary school math.

Progress through Math 5 and Math 6 at your own pace in a small group setting.

Topics include fractions and decimals, algebraic expressions and equations, proportions, measurement, geometry, and statistics.

Advanced Math 5-6

Grades 5-6

Challenge yourself by learning pre-algebra, algebra, and geometry as a rising 5th or 6th grader.

Topics include 7th and 8th grade level content: algebra, slopes and graphing, transformations, and complex geometry problems involving area, perimeter, surface area, and volume.

Virginia Pre-Algebra

Grades 6-8

Make the transition from elementary to middle school math with confidence.

Topics include linear functions, exponents, algebraic equations and inequalities, geometry, volume and surface area, probability, and statistics.

Virginia Algebra

Grades 7-9

Get ready for your first high school-level math course: Algebra I.

Topics include equations, inequalities, functions, exponents, polynomials, quadratics, and statistics.

Virginia Geometry

Grades 7-9

Prepare for high school Geometry.

Topics include parallel and perpendicular lines, triangles, congruence and similarity, polygons, circles, solid figures, and transformations.





Algebra Reinforcement

Grades 9-12

Review Algebra I and Geometry in a small-group setting.

Instructors create an individual plan for each student with topics drawn from Virginia Algebra I and Virginia Geometry.

Students learn at their own pace and can get personal coaching from their instructor at any time.

Virginia Algebra II

Grades 9-12

Prepare for your upcoming Algebra II course at a local high school.

Topics include factoring, quadratics, polynomials, radicals, exponential and logarithmic functions, rational functions, and sequences and series.

Virginia Precalculus

Grades 9-12

Make the transition to advanced high school level math with confidence.

Topics include polynomial and rational functions, exponential and logarithmic functions, trigonometric and polar functions, vectors, and matrices.

Virginia Calculus

Grades 9-12

Get ready to tackle one of the most advanced high school-level math courses.

Topics include limits, continuity, simple and composite differentiation, inverse functions, integration, differential equations, and applications of differentiation and integration.

Virginia School of Math

Trusted Support for Virginia Math Students
In-Person • Year-Round

Math is like sports. Math talent must be developed just like athletic talent. Great math students, like great athletes, are made, not born.

To reach their full potential, math students, like athletes, need deliberate practice, expert coaching, and supportive teammates.

This is what Fairfax Collegiate provides with our year-round **Virginia School of Math** and **Virginia Math Circles**.

Virginia Math Circles are two to six students, led by an instructor, who meet weekly in-person for 105 minutes.

Meetings have three segments: **Deliberate Practice**, **Math Preview**, and **Group Challenge**.

During **Deliberate Practice** (~60 min), students make progress using our own curriculum and their school homework and study guides.

In **Math Preview** (~25 min), the Math Circle learns concepts they will see soon in their school courses.

Group Challenge (~20 min) extends school math with puzzles, enrichment topics, competition problems, SAT math prep, and real-world applications.

Math Circles Meet Sundays at Compass Enrichment
520 Herndon Parkway, Suite D
Herndon, VA 20170

Free Math Consultations
fairfaxcollegiate.com/virginia-math



In-Person
Year-Round
Math

WRITING

Write every day, meet individually with instructors, and receive detailed suggestions for improvement.

Writing courses are small-group seminars, taught by skilled writers, and balance direct instruction in writing with opportunities for creativity and self-expression.

Writing Fundamentals

Grades 3-4

Learn to write varied, grammatically correct sentences, and build a solid foundation for writing paragraphs.

This course emphasizes word choice, spelling, sentence structure, paragraph organization, and proofreading.

Instructors provide detailed suggestions for improving spelling and grammar as well as ideas and organization.

Reading Reinforcement

Grades 3-4

Read classic poems, fables, and stories, and write about themes, plots, and characters.

Assignments include summaries, reading comprehension exercises, and interpretations.

Students write responses to readings and receive detailed feedback from their instructor.

Story Writing

Grades 3-4

Write, share, discuss, and revise your own short stories, and publish your writing in a class anthology.

Students practice the writing process, explore components of an effective story, and workshop their stories in class. Topics include compelling characters, memorable settings, plot outlines, and point-of-view.

Writing Skills & Grammar

Grades 5-6

Write simple, compound, and complex sentences; learn note-taking; create outlines; and draft, revise, and edit well-organized paragraphs.

This writing course focuses on organization, paragraph construction, grammar, spelling, and mechanics.

Topics include thesis statements, transitions, active voice, word choice, and common errors.

Strategic Reading

Grades 5-6

Read articles, essays, and stories, practice close reading and note-taking, and write summaries and interpretations.

Students learn and apply reading strategies and comprehension tools including looking for cause and effect, outlining, questioning, skimming, summarizing, and synthesizing.

Creative Writing

Grades 5-6

Write, share, discuss, and revise your own personal narratives, short stories, plays, and poems.

Students revise drafts of their works based on their instructor's written comments. Students may publish their works in a class anthology and enter their works into writing contests.

Writing for Middle School

Grades 5-6

Learn to write five-paragraph essays, the mainstay of writing across the middle school curriculum.

Students learn how to use thesis statements and supporting sentences to structure paragraphs, and then how to use paragraphs to structure essays.





Writers' Workshop

Grades 7-9

Write, share, discuss, and revise your own short stories, poems, articles, and personal essays about topics that are interesting to you.

This course provides middle school students with intensive practice in writing. Classes are small-group seminars.

Students learn the entire writing process including brainstorming, outlining, drafting, revising, and editing.

Reading for Meaning

Grades 7-9

Become a critical reader by reading opposing viewpoints about contemporary issues, practicing close reading, note-taking, and summarizing.

Classroom exercises develop literary analytical tools including compare/contrast, cause/effect, and prediction.

Genres include short stories, journalistic writing, essays, and poetry. Students write a variety of compositions on the results of their analyses and the literary themes expressed in the texts. They also write an original work.

Writing for High School

Grades 7-9

Become proficient at writing five-paragraph essays through developing sentence variety and practicing notetaking and outlining.

Topics include essay and paragraph structure, persuasive arguments, thesis statements, clean style, mechanics, grammar, diction, and idioms.

Students write and revise daily five-paragraph essays, with a focus on persuasive, expository, and narrative essays.

Academic Writing

Grades 9-12

Improve upon sentence expansion, note-taking, single-paragraph outlines, the writing process, and multi-paragraph organization.

Students write and revise short papers and essays on topics of personal interest and learn academic editorial and citation styles.

Students write daily in academic style and receive detailed corrections and suggestions for improvement from their instructors.

College Essay Workshop

Grades 9-12

Explore how colleges use application essays, how to write effective essays, and how to use your essays to differentiate and position your college applications.

The course is taught as a seminar. Students present their college admission goals and strategies, brainstorm essay topics and approaches, and write, discuss, and revise admissions essays.



SCIENCE

Advance the boundaries of your scientific knowledge by reading, thinking, discussing, hypothesizing, and experimenting. Elementary and middle school science courses are built around hands-on labs, while high school courses prepare students for upcoming biology and chemistry courses.

Hands-On Science

Grades 3-4

Complete labs to get hands-on experience with biology, chemistry, and physics.

Biology activities include plant, bacteria, microscope, and epidemiology labs. Chemistry activities include water labs, chemical reaction labs, and acid and bases labs. Physics activities include force/friction labs, bridge building experiments, and energy and power labs.

Spy Science

Grades 3-4

Hone your detective skills, and learn the secrets of spying, sleuthing, and subterfuge.

Students study fingerprint and handwriting analysis, chemical analysis, forgery identification, spy gadgets, surveillance tools, encryption, and code breaking.

Activities include spy missions to apply what they have learned throughout the course.



Chem Workshop

Grades 5-6

Learn about chemistry through a variety of hands-on exercises with solutions and reactions.

Topics include experimental design, the periodic table, atomic structure, chemical bonds and reactions, acids and bases, phase changes, pressure and temperature, and solubility.

Students model atoms, make casein glue, investigate fluid viscosity, simulate acid rain, refine invisible inks, and explore chemical reactions.

Human Biology & Anatomy

Grades 5-6

Use hands-on activities to learn about the major organ systems.

This course explores four key organ systems: the cardiovascular system, the digestive system, the nervous system, and the musculoskeletal system.

Class activities include reading assignments, discussions, hands-on exercises, experiments, working with human skeleton and body anatomy models, and medical simulations. Students also create life-sized posters of their organ systems.

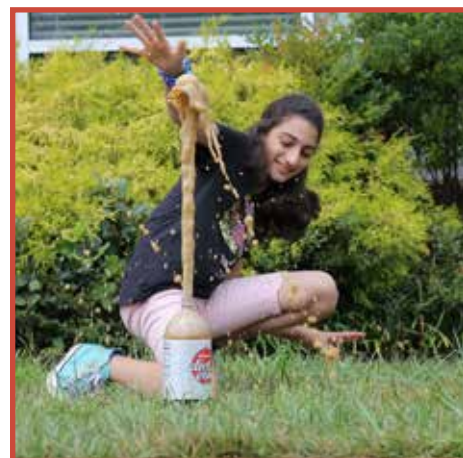
CSI Science

Grades 5-6

Practice the techniques used in crime scene investigations.

Students complete labs to learn more about crime scene investigation. Topics include fingerprint and handwriting analysis, chemical analysis, forgery identification, surveillance tools, shoe prints, and blood spatter patterns.

Students investigate crimes throughout the class using the techniques they've learned.





Forensic Science

Grades 7-9

Become a crime scene investigator with labs to help you solve mysterious cases.

Labs include crime scenes, tool marks, chemical analysis, counterfeit documents, fiber identifications, fingerprints, handwriting analysis, forgeries, ink chromatography, shoe prints, forensic anthropology, and blood splatter patterns.

Each class attempts to solve a simulated crime using the forensic techniques learned.

Neuroscience

Grades 7-9

Use computer simulations and actual nerve signal measurements to learn about the nervous system.

Topics include brain structure, motor control, neurons, neurotransmitters, action potentials, signal transduction, potentiation, memory, and neurodegenerative diseases.

Experiments include computer simulations, human motor nerve signal measurement, and brain wave pattern observation and interpretation.

Medical Science

Grades 7-9

Investigate organ systems through dissection and phlebotomy simulations, and learn about causes and treatment of disease.

Students discuss human anatomy, organ systems, pathology, epidemiology, and pharmacology.

Activities include demonstrations, labs such as bacterial cultures, and simulations of medical procedures such as suturing and phlebotomy.

Animal Physiology

Grades 7-9

Complete dissections of preserved specimens to learn about animal anatomy, physiology, and organ structures.

Students complete a variety of full laboratory dissections of preserved specimens, including owl pellets, annelids, frogs, rats, sheep brains, and dogfish sharks.

Topics covered through these discussions include animal taxonomy, skeletons, organs, the nervous, circulatory, and digestive systems, and convergent and divergent evolution.

Intro to High School Bio

Grades 9-12

Prepare for your upcoming biology class with an overview of key topics.

Topics include cellular structure and function, biological transport, DNA, and genetics.

Presentations, quizzes, and frequent review help tie concepts together to give students a deeper understanding of how different biological processes are intertwined.

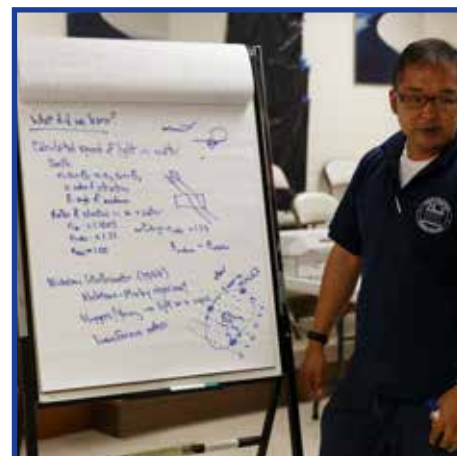
Intro to High School Chem

Grades 9-12

Prepare for your upcoming chemistry class with an overview of key topics.

Topics include atomic structure and bonding, chemical equations, states of matter, and solutions.

Lectures and problem sets challenge students to understand these new concepts and be prepared for the upcoming school year.





Ace the TJ and ACL exams and essays.
Get the test-taking practice, writing tips, and individual coaching you need to earn admission to local selective public high schools.

TJ Admissions Prep

Grades 7-8

Prepare for TJHSST admissions, with an emphasis on crafting strong personal statements and problem-solving essays.

In this in-person course, students practice answering a variety of Student Portrait Sheet essay prompts and learn a framework for responding to the Problem-Solving Essay question.

Instructors support students in efficiently writing organized, informative, and grammatically correct essays under time constraints.

Students take two full-length practice tests, and receive a written evaluation.

TJ Personal Statements

Grades 7-8

Prepare for TJHSST admissions, with an emphasis on crafting strong personal statements.

In this online course, students focus on the TJ personal statements, but also learn about problem-solving essay questions.

TJ Problem-Solving Essay

Grades 7-8

Prepare for TJHSST admissions, with an emphasis on strategizing for the Problem-Solving Essay question and response.

In this online course, students focus on the TJ problem-solving essay questions, but also learn about the personal statements section.

Academies of Loudoun Prep

Grades 7-8

Prepare for the Academies of Loudoun (AOS and AET) admissions exam.

Students review content for each of the sections of the STEM Thinking Skills Assessment and learn a variety of effective test-taking strategies. Students also prepare for the Writing Assessment.

Students take two full-length practice tests and receive a written evaluation.





Prepare for the new digital SAT and PSAT.

Courses feature diagnostic tests, small group instruction, test-taking strategies, and techniques for building confidence. You got this!

Digital PSAT/NMSQT Prep

Grades 8-10

Prepare for the digital PSAT/NMSQT, the qualifying test for the National Merit Scholarship Program.

The math review covers algebraic expressions and equations, graphical representations, statistics, and strategies for the math section of the test. The reading and writing review emphasizes grammar and mechanics, locating information, making inferences, and analyzing rhetoric.

Students complete two official practice PSAT tests and become familiar with question formats, test scoring, and time-management. Instructors write evaluations with suggestions for improvement.

Digital SAT Prep

Grades 9-12

Prepare for the math and the reading and writing sections of the digital SAT.

The math review covers SAT math question types and Algebra, Geometry, and Algebra 2 topics. The reading and writing review emphasizes locating and synthesizing information, making inferences, and analyzing rhetoric.

Students complete three practice SAT tests under timed conditions and become familiar with question formats, test scoring, and time-management strategies. Instructors write evaluations with suggestions for improvement.

Each student receives a copy of *The Official Digital SAT Study Guide*.

Digital SAT Math Prep

Grades 9-12

Prepare for the math section of the new digital SAT.

Topics include linear equations and inequalities, systems of equations, non-linear functions, interpreting data in graphs, probability, area, volume, and properties of triangles and circles.

Digital SAT Verbal Prep

Grades 9-12

Prepare for the reading and writing section of the new digital SAT.

Topics include understanding a passage's central idea and details, exploring why authors write in a particular way, revising a text to clarify the writer's goal, and reviewing standard English conventions to properly edit a text.

Year-Round Digital SAT Prep

In-Person in McLean • Online via Zoom

The Digital SAT: The College Board has updated the SAT to be all digital. This change brings a new test format, new question types, and new strategies for success.

Fairfax Collegiate: Fairfax Collegiate is the area's largest local enrichment program and has prepared thousands of students for high stakes tests since 1993.

The Course: We use *The Official Digital SAT Study Guide* and cover the Reading and Writing and Math sections of the SAT.

Philosophy: We cultivate a growth mindset and appreciate that students progress at different rates. Students learn in a comfortable environment and feel less stress as they prepare for Test Day.

McLean Classes Meet Tuesday or Wednesday Evenings

Lutheran Church of the Redeemer

1545 Chain Bride Road, McLean, VA 22101

Online Classes Meet Saturdays

fairfaxcollegiate.com/test-prep





Build confidence speaking in front of an audience and debating, persuading, and leading.

Public speaking courses provide students with daily opportunities to improve their self-expression and communication skills by preparing and delivering speeches and arguments to peers.

Public Speaking

Grades 3-4

Write and deliver a variety of speeches on topics of your choosing to gain confidence in a group setting.

Students present daily speeches to the class under guidance from an instructor who helps improve the content and delivery of the speech.

Students learn how to encourage each other and provide constructive feedback.

Elementary Debate

Grades 5-6

Learn the basics of debate as you go head-to-head against classmates to discuss relevant topics.

Debate topics are both challenging and directly relevant to students.

Group exercises develop public speaking, critical reasoning, argument construction, rebuttal, and evidence presentation skills.

Speech

Grades 5-6

Deliver written, extemporaneous, and impromptu speeches in front of an audience each day, and build up your skills in public speaking.

Students present speeches and incorporate feedback from their instructor regarding eye contact, body language, word choice, voice inflection, and more.

Students also develop research skills as they work on their final speech of the session.

Middle School Debate

Grades 7-9

Conduct research, gather evidence, and write persuasive arguments as you participate in daily debates over important issues.

Students learn public speaking skills as they craft arguments and rebuttals.

Topics in daily debates include issues of national and personal importance.

Model UN

Grades 7-9

Learn how the United Nations functions by acting as an ambassador and negotiating with other countries to draft resolutions and solve global problems.

Students develop critical thinking, negotiating, debating, and writing skills.

Topics include the United Nations, the Security Council, rules and procedures, speech-making, negotiating, and drafting resolutions.

Mock Trial

Grades 7-9

Take on the role of an attorney, witness, judge, or jury member as you learn about the American court system and participate in trials.

Activities include selecting jurors, delivering opening statements, examining witnesses, presenting evidence, making closing arguments, and deliberating verdicts. Discussions address the role of courts, due process, civil and criminal trials, and standards of proof.





Develop artistic and technical skills. Make short films that inform, persuade, tell stories, and create emotion.

Students brainstorm ideas as a group, write and revise scripts, operate sophisticated equipment, and edit videos with industry-standard software.

Intro to Filmmaking

Grades 3-4

Work together with other students and start telling stories with video.

Through exercises, students learn basic principles of filmmaking including thinking in shots, making every picture tell the story, connecting by showing actors' faces, and building sequences. Next, as a class, they write, plan, shoot, and edit a short film.

Students use tripod-mounted video cameras, boom microphones, and Apple iMovie. They share films to a private website for home viewing.

Filmmaking

Grades 5-6

Make short films and work through all the stages of production.

In small groups students brainstorm ideas for a short film, write an original script, create shot lists, and draw storyboards. Next they cast roles, rehearse scenes, procure costumes and props, and shoot and edit their film.

Students use tripod-stabilized video cameras, external microphones and iMovie. They share films to a private website for home viewing.

Video Production

Grades 7-9

Write, direct, produce, and edit short films with high production values.

Exercises cover acting, script writing, storyboarding, location scouting, camera operation, lighting, and sound.

Students produce one or more short films using tripods, video cameras, boom microphones, costumes, props, and lights.

Students edit their films with iMovie and share them to a private website for home viewing.

Stop-Motion Animation

Grades 5-6

Use handcrafted figurines and scenery, household objects, and digital cameras to create a compelling story.

This course provides an overview of photography, sound recording, and video editing.

Students use still cameras, audio recorders, and iMovie to create stop-motion animation films.



TECHNOLOGY

Think like a scientist or engineer while exploring futuristic and emerging technologies such as robotics, simulators, and 3D printing.

Technology courses are hands-on and will challenge both beginners and experienced students to learn and apply STEM principles as they work through engaging projects sure to spark their interests.

Intro to Robotics

Grades 3-4

Build and program LEGO Mindstorms EV3 robots.

Projects include building a trash collecting robot, a robotic arm, and a robot that navigates mazes. The spotlight skill is elementary programming using the EV3 graphical environment.

Robotics Zoo

Grades 3-4

Build LEGO Mindstorms EV3 robots that mimic the appearance and behavior of animals.

Projects include building toads, grasshoppers, polar bears, komodo dragons, and other animals. The spotlight skill is building unusual designs.

Robotics Olympiad

Grades 5-6

Build and program LEGO Mindstorms EV3 robots, and engage in friendly competitive challenges.

Activities include soccer, go kart racing, and maze navigation. The spotlight skill is optimizing robots to create competitive advantages.

Robotics Engineering

Grades 5-6

Use the engineering process to solve problems and obstacles with robots you can program.

Projects include top spinning, mini golf, and hill climbing. The spotlight skills are keeping a design journal and revising designs through trial and error.

Intro to 3D Printing

Grades 5-6

Design 3D objects, and bring them to life on a 3D printer.

Lessons highlight commercial and industrial applications of 3D printing and different 3D printing materials.

Each student designs and prints six to eight small objects around themes such as cities, puzzles, or fantasy.

Driving School

Grades 5-6

Learn to drive a car, and explore automotive safety, engineering, and racing.

Students learn to drive using realistic PC-based simulators. Driving instruction includes street driving in conformance with road and traffic laws, high-performance driving, and Formula 1 racing.

Other topics include automotive safety, engineering, maintenance, and history. Students disassemble and assemble a model car engine.





3D Printing

Grades 7-9

Design and print 3D objects.

Lessons explore different printing materials and diverse applications of 3D printers. Activities focus on creating objects around a certain theme each day, such as cities, puzzles, or fantasy objects. Students take home approximately 6-8 small objects throughout the course.

Flight School

Grades 7-9

Learn to fly a plane, and explore aviation safety, engineering, and history.

Students learn to fly using Microsoft Flight Simulator, a program used by real pilots to sharpen their skills.

Flight instruction includes instruments and controls, pre-flight checklists, radio comms, takeoffs, ascent, level flight, navigation, banking, descent, and landings. Students practice reacting to extreme weather and other emergencies, and also recreate historic aviation events.

Students take a practice exam with questions drawn from the Private Pilot Aeronautical Knowledge Test.

Biomedical Engineering

Grades 7-9

Envision and prototype new medical equipment, prostheses, and artificial organs using 3D printing, computer simulations, and traditional modeling.

Topics include biochemistry, cell physiology, cell cycles, cell division, DNA structure and synthesis, protein synthesis, gene expression, tissue structure, human anatomy, and genetic engineering.

Aerospace Engineering

Grades 7-9

Launch into the physics and engineering behind flight, rocket science, and space exploration.

This course provides students with a broad overview of aerospace engineering. It features lessons on the behavior, design, construction, and operations of both aircraft and spacecraft, as well as current and emerging aerospace technologies, the physics behind flight and orbit, and the chemistry of propulsion.

Students complete projects such as making hot air balloons, building a wind tunnel to test airfoils, and creating and firing DIY sugar-powered rocket motors.

Robotics Combat

Grades 7-9

Design, build, and program LEGO Mindstorms EV3 robots to compete in daily head-to-head battles.

Projects include jousting, a grenade drop battle, and sumo wrestling. The spotlight skill for the course is optimizing robot designs to gain an advantage.

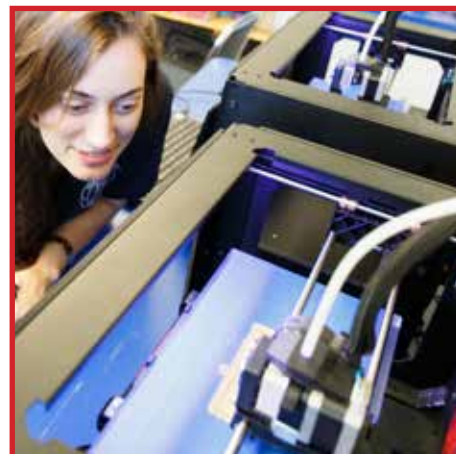
Arduino Engineering

Grades 7-9

Program and modify circuit boards to create a variety of devices.

Middle school students explore the intersection of electronics, computers, and programming by building projects with Arduino, an open-source electronics prototyping platform (<http://www.arduino.cc>).

Projects include LED Dice, a binary counter, a Morse code translator, a lie detector, and a motion-sensing alarm. Discussion topics include hobbyist, commercial, and industrial applications of Arduino and other computer systems. Students research recent trends in the maker community, and brainstorm project ideas of their own.





Learn computer programming in small classes, taught by instructors who know computer science and connect well with students.

Courses are project-based, available in multiple programming languages, and suitable for beginners as well as students with prior experience. Several courses incorporate hardware as well as software.

Scratch Programming

Grades 3-4

Have fun writing programs with Scratch, a programming tool for kids.

Students use graphical blocks to define program logic and control graphics, photos, and sounds.

Class topics include commands for motion, appearance, sound, control structures such as conditional logic and event triggers, and variables.

Projects include creating a variety of interactive stories, games, and animations.

Minecraft Modding

Grades 3-4

Customize and extend Minecraft by building your own mods.

Students use MCreator to customize blocks, items, creatures, environments, achievements, triggers, and events.

As a final project, students export their own fully functional Minecraft mods to Minecraft Forge.

Intro to Programming

Grades 5-6

Work with other budding computer scientists and learn about programming.

Students explore fundamental computing concepts including computer hardware, binary numbers, boolean logic, data, and programs.

Next students get an introduction to the Python language and write simple games.

Minecraft and Python

Grades 5-6

Learn Python programming by writing scripts to enhance Minecraft.

Programming topics include variables, types, conditional statements, loops, collections, and algorithms.

Students write Python programs to generate massive structures and cities inside of Minecraft. Next, they create customized Minecraft minigames.

Python Programming

Grades 7-9

Learn Python, the world's most popular scripting programming language.

Topics include Python language syntax, the fundamental data structures, organizing Python programs using functions, classes, and modules, and reading and writing text files.

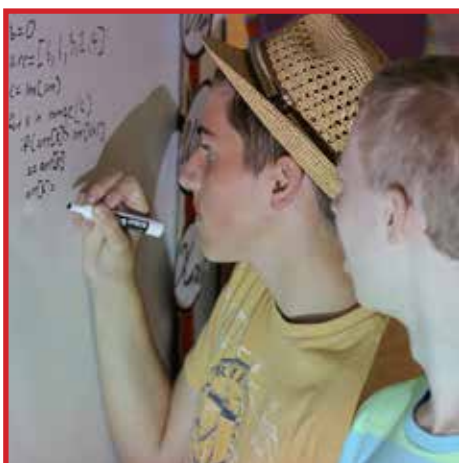
Projects include utilities and games.

Java Programming

Grades 7-9

Learn Java, world's most popular compiled programming language.

The course combines classroom instruction and practice projects. Students explore fundamental data structures including strings, arrays, lists, and maps. They also learn about Java classes and object-oriented programming.



Intro to Computer Science

Grades 9-12

Explore Java concepts needed for success in high school Comp Sci.

The course builds from beginning topics such as keywords, variables, conditionals, and loops to advanced topics such as object-oriented programming and polymorphism.

Intro to Python

Grades 9-12

Learn Python, the leading language for computer science instruction.

The course provides a comprehensive introduction to the key features of Python at a measured pace which is comfortable for a broad range of students.

ASHBURN AND CHANTILLY SCHEDULES



Ashburn: Loudoun School for Advanced Studies, 20577 Ashburn Rd., Ashburn, VA, 20147

Session I: Jun 17-Jun 28

Morning

Virginia Math 3-4
Intro to Robotics 3-4
Creative Writing 5-6
Elementary Debate 5-6
Virginia Geometry 7-9
Python Programming 7-9
Aerospace Engineering 7-9
Academic Writing 9-12
Digital SAT Prep 9-12

Afternoon

Story Writing 3-4
Hands-On Science 3-4
Virginia Math 5-6
Robotics Engineering 5-6
Reading for Meaning 7-9
Middle School Debate 7-9
Academies of Loudoun Prep 7-8
Algebra Reinforcement 9-12
Intro to Python 9-12

Session II: Jul 1-Jul 12

Morning

Writing Fundamentals 3-4
Scratch Programming 3-4
Virginia Math 5-6
Robotics Olympiad 5-6
Writers' Workshop 7-9
Medical Science 7-9
Video Production 7-9
Virginia Algebra II 9-12
Digital SAT Prep 9-12

Afternoon

Virginia Math 3-4
Spy Science 3-4
Writing Skills and Grammar 5-6
Speech 5-6
Chem Workshop 5-6
Virginia Algebra 7-9
Arduino Engineering 7-9
Academies of Loudoun Prep 7-8
College Essay Workshop 9-12

Session III: Jul 15-Jul 26

Morning

Virginia Math 3-4
Public Speaking 3-4
Writing for Middle School 5-6
Minecraft and Python 5-6
CSI Science 5-6
Virginia Geometry 7-9
Model UN 7-9
Java Programming 7-9
Digital PSAT/NMSQT Prep 8-10

Afternoon

Reading Reinforcement 3-4
Robotics Zoo 3-4
Virginia Math 5-6
Filmmaking 5-6
Writing for High School 7-9
Virginia Pre-Algebra 6-8
Animal Physiology 7-9
Virginia Precalculus 9-12
Intro to Computer Science 9-12

Session IV: Jul 29-Aug 9

Morning

Story Writing 3-4
Minecraft Modding 3-4
Virginia Math 5-6
Human Biology & Anatomy 5-6
Robotics Olympiad 5-6
Writers' Workshop 7-9
Mock Trial 7-9
Academies of Loudoun Prep 7-8
Virginia Algebra II 9-12

Afternoon

Virginia Math 3-4
Intro to Filmmaking 3-4
Strategic Reading 5-6
Intro to Programming 5-6
Stop-Motion Animation 5-6
Virginia Algebra 7-9
Forensic Science 7-9
Robotics Combat 7-9
Digital SAT Prep 9-12

Session V: Aug 12-Aug 16

Morning

Writing Fundamentals 3-4
Advanced Math 3-4
Virginia Math 5-6
Elementary Debate 5-6
Writing for High School 7-9
Virginia Algebra 7-9
Virginia Geometry 7-9
Virginia Algebra II 9-12
Digital SAT Verbal Prep 9-12

Afternoon

Virginia Math 3-4
Public Speaking 3-4
Writing Skills and Grammar 5-6
Advanced Math 5-6
Virginia Pre-Algebra 6-8
Middle School Debate 7-9
Academies of Loudoun Prep 7-8
Academic Writing 9-12
Digital SAT Math Prep 9-12



Chantilly: St. Timothy Catholic School, 13809 Poplar Tree Rd., Chantilly, VA 20151

Session I: Jun 17-Jun 28

Morning

Reading Reinforcement 3-4
Minecraft Modding 3-4
Advanced Math 5-6
Human Biology & Anatomy 5-6
Reading for Meaning 7-9
Video Production 7-9
Arduino Engineering 7-9
Virginia Precalculus 9-12
Intro to Computer Science 9-12

Afternoon

Advanced Math 3-4
Intro to Filmmaking 3-4
Strategic Reading 5-6
Intro to Programming 5-6
Stop-Motion Animation 5-6
Virginia Algebra 7-9
Java Programming 7-9
Medical Science 7-9
Digital PSAT/NMSQT Prep 8-10

Session II: Jul 1-Jul 12

Morning

Virginia Math 3-4
Hands-On Science 3-4
Creative Writing 5-6
Elementary Debate 5-6
Robotics Engineering 5-6
Virginia Geometry 7-9
Forensic Science 7-9
TJ Admissions Prep 7-8
Academic Writing 9-12

Afternoon

Story Writing 3-4
Intro to Robotics 3-4
Virginia Math 5-6
CSI Science 5-6
Filmmaking 5-6
Writing for High School 7-9
Mock Trial 7-9
Algebra Reinforcement 9-12
Digital SAT Prep 9-12

Session III: Jul 15-Jul 26

Morning

Writing Fundamentals 3-4
Scratch Programming 3-4
Virginia Math 5-6
Human Biology & Anatomy 5-6
Writers' Workshop 7-9
Middle School Debate 7-9
Robotics Combat 7-9
Virginia Algebra II 9-12
Digital SAT Prep 9-12

Afternoon

Virginia Math 3-4
Spy Science 3-4
Writing Skills and Grammar 5-6
Elementary Debate 5-6
Robotics Olympiad 5-6
Virginia Algebra 7-9
Python Programming 7-9
College Essay Workshop 9-12
Intro to Python 9-12

Session IV: Jul 29-Aug 9

Morning

Advanced Math 3-4
Public Speaking 3-4
Writing for Middle School 5-6
Chem Workshop 5-6
Robotics Engineering 5-6
Virginia Pre-Algebra 6-8
Model UN 7-9
Aerospace Engineering 7-9
Digital SAT Prep 9-12

Afternoon

Reading Reinforcement 3-4
Robotics Zoo 3-4
Advanced Math 5-6
Speech 5-6
Minecraft and Python 5-6
Reading for Meaning 7-9
Animal Physiology 7-9
TJ Admissions Prep 7-8
Virginia Calculus 9-12

Visit fairfaxcollegiate.com for additional information about each course, including a detailed syllabus and a schedule of available sessions and locations for a given course.

MCLEAN AND TYSONS SCHEDULES



McLean: Lutheran Church of the Redeemer, 1545 Chain Bridge Rd., McLean, VA 22101

Session I: Jun 17-Jun 28

Morning

Writing for Middle School 5-6
Chem Workshop 5-6
Filmmaking 5-6
Virginia Algebra 7-9
Model UN 7-9
Aerospace Engineering 7-9
College Essay Workshop 9-12
Digital SAT Prep 9-12

Afternoon

Virginia Math 5-6
Speech 5-6
Minecraft and Python 5-6
Writing for High School 7-9
Animal Physiology 7-9
TJ Admissions Prep 7-8
Virginia Algebra II 9-12
Intro to High School Bio 9-12

Session II: Jul 1-Jul 12

Morning

Virginia Math 5-6
Elementary Debate 5-6
Intro to Programming 5-6
Reading for Meaning 7-9
Java Programming 7-9
Neuroscience 7-9
Virginia Precalculus 9-12
Digital PSAT/NMSQT Prep 8-10

Afternoon

Strategic Reading 5-6
Advanced Math 5-6
Human Biology & Anatomy 5-6
Virginia Geometry 7-9
Middle School Debate 7-9
Robotics Combat 7-9
Academic Writing 9-12
Intro to Computer Science 9-12

Session III: Jul 15-Jul 26

Morning

Creative Writing 5-6
CSI Science 5-6
Virginia Pre-Algebra 6-8
Mock Trial 7-9
Aerospace Engineering 7-9
TJ Admissions Prep 7-8
Intro to Python 9-12
Intro to High School Chem 9-12

Afternoon

Virginia Math 5-6
Elementary Debate 5-6
Robotics Engineering 5-6
Writers' Workshop 7-9
Python Programming 7-9
Forensic Science 7-9
Algebra Reinforcement 9-12
Digital SAT Prep 9-12

Session IV: Jul 29-Aug 9

Morning

Virginia Math 5-6
Filmmaking 5-6
Robotics Olympiad 5-6
Writing for High School 7-9
Python Programming 7-9
Medical Science 7-9
Virginia Algebra II 9-12
Digital SAT Prep 9-12

Afternoon

Writing Skills and Grammar 5-6
Chem Workshop 5-6
Virginia Algebra 7-9
Virginia Geometry 7-9
Video Production 7-9
Arduino Engineering 7-9
College Essay Workshop 9-12
Intro to Python 9-12

Session V: Aug 12-Aug 16

Morning

Writing Fundamentals 3-4
Advanced Math 3-4
Virginia Math 5-6
Elementary Debate 5-6
Writers' Workshop 7-9
Virginia Algebra 7-9
Virginia Algebra II 9-12
Digital SAT Verbal Prep 9-12

Afternoon

Virginia Math 3-4
Public Speaking 3-4
Writing for Middle School 5-6
Advanced Math 5-6
Virginia Geometry 7-9
TJ Admissions Prep 7-8
Academic Writing 9-12
Digital SAT Math Prep 9-12



Tyson's: BASIS Independent McLean, 8000 Jones Branch Dr., McLean, VA 22102

Session I: Jun 17-Jun 28

Morning

Virginia Math 3-4
Spy Science 3-4
Creative Writing 5-6
Driving School 5-6
Robotics Engineering 5-6
Virginia Algebra 7-9
Virginia Pre-Algebra 6-8
Middle School Debate 7-9
Python Programming 7-9
3D Printing 7-9
Academic Writing 9-12
Algebra Reinforcement 9-12

Afternoon

Writing Fundamentals 3-4
Scratch Programming 3-4
Virginia Math 5-6
Elementary Debate 5-6
Human Biology & Anatomy 5-6
Intro to 3D Printing 5-6
Writers' Workshop 7-9
Virginia Geometry 7-9
Neuroscience 7-9
Flight School 7-9
Intro to Python 9-12
Digital SAT Prep 9-12

Session II: Jul 1-Jul 12

Morning

Reading Reinforcement 3-4
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Virginia Math 5-6
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Intro to 3D Printing 5-6
Reading for Meaning 7-9
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Medical Science 7-9
Video Production 7-9
Flight School 7-9
Intro to High School Chem 9-12
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Virginia Math 3-4
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Writing Skills and Grammar 5-6
CSI Science 5-6
Filmmaking 5-6
Driving School 5-6
Virginia Pre-Algebra 6-8
Middle School Debate 7-9
Biomedical Engineering 7-9
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Digital SAT Prep 9-12

RESTON AND ONLINE SCHEDULES



Reston: Edlin School, 10742 Sunset Hills Rd., Reston, VA 20190

Session I: Jun 17-Jun 28

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Story Writing 3-4
Robotics Zoo 3-4
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Online: Live via Zoom

Session I: Jun 17-Jun 28

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Intro to High School Chem 9-12
Digital SAT Math Prep 9-12



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Reston
Edlin School
10742 Sunset Hills Rd.

Tysons
BASIS Independent McLean
8000 Jones Branch Dr.

Online
Live via Zoom

Chantilly
St. Timothy Catholic School
13809 Poplar Tree Rd.

McLean
Lutheran Church of the Redeemer
1545 Chain Bridge Rd.



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