

# DeAnza College

# ACADEMY

2019 SUMMER YOUTH ENRICHMENT PROGRAM FOR GRADES 1-12

**NEW!**  
ALL-DAY  
OPTION FOR  
GRADES  
6-12

**ENROLL  
NOW!**

DeAnza College  
**ACADEMY**  
[deanza.edu/academy](http://deanza.edu/academy)

CAN'T WAIT FOR SUMMER?

# SPRING 2019 COURSES

De Anza College Academy and Community Education Short Courses

## **ASTRONOMY FOR EVERYONE!\*\***

May 16 (one Thursday)

## **BBC MICRO:BIT PROGRAMMING, TINKERING AND MAKING INTERMEDIATE LEVEL\***

(Grades 5 - 8)

April 1, 8, 22 and 29; May 6, 13, 20 and 27;  
June 3 and 10  
(10 Mondays; no class on April 15)

## **BIRDING AND NATURE BASICS OF SANTA CLARA COUNTY\*\***

April 18 and 25; May 2, 9, 16 and 23 (six  
Thursdays) or April 27; May 4, 11 and 18  
(four Saturdays)

## **COOKING: IN NONNA'S KITCHEN\*\***

March 1 (one Friday)

## **ITALIAN COUNTRY COOKING: THE SECRET OF CUCINA POVERA\*\***

April 26 (one Friday)

## **COOKING: SPRINGTIME IN ITALY\*\***

May 3 (one Friday)

## **COOKING: WINTERTIME IN NORTHERN ITALY\*\***

Feb. 22 (one Friday)

## **EINSTEIN'S THEORY OF RELATIVITY FOR EVERYONE!\*\***

April 17 (one Wednesday)

## **FINDING YOUR WAY THROUGH THE NIGHT SKY\*\***

April 5 and 12 (two Fridays)

## **HIKING THE PARKS AND TRAILS OF THE SANTA CRUZ MOUNTAINS\*\***

April 11, 13 and 27; May 9 and 11  
(two Thursdays in the classroom and  
three Saturdays hiking)

## **iOS MULTIMEDIA FOR BEGINNERS\*\***

March 6, 13, 20 and 27; April 3  
and 10 (six Wednesdays)

## **JAVA PROGRAMMING**

**INTERMEDIATE LEVEL\*** (sessions for  
Grades 5-8 and Grades 9-12)  
April 6, 13 and 27; May 4, 11, 18 and 25;  
June 1, 8 and 15  
(10 Saturdays; no class on April 20)

## **LEARNING TO DRAW AND ANIMATE\*** (Grades 6-9)

April 6 - June 15  
(10 Saturdays; no class on April 20)

## **PERSIAN (FARSI) INTERMEDIATE LEVEL\*** (Grades 1 - 6)

April 6, 13 and 27; May 4, 11, 18 and 25;  
June 1, 8 and 15 (10 Saturdays; no class  
on April 20) or (Grades 7 - 12)  
April 6, 13 and 27; May 4, 11, 18 and 25;  
June 1, 8 and 15  
(10 Saturdays; no class on April 20)

## **PERSIAN HERITAGE AND CULTURE\*\***

March 7, 14, 21 and 28 (four Thursdays)

## **PLANETARY DISCOVERIES: SEARCHING FOR NEW EARTHS\***

(Grades 5 - 8)  
April 5, 12 and 26; May 3, 10, 17, 24  
and 31; June 7 and 14  
(10 Fridays; no class on April 19)

## **PYTHON PROGRAMMING BEGINNING LEVEL\*** (Grades 1 - 4)

April 6, 13 and 27; May 4, 11, 18 and 25;  
June 1, 8 and 15  
(10 Saturdays; no class on April 20)

## **PYTHON PROGRAMMING INTERMEDIATE LEVEL\***

(Grades 9-12)  
April 6, 13 and 27; May 4, 11, 18 and 25;  
June 1, 8 and 15  
(10 Saturdays; no class on April 20)

## **PYTHON PROGRAMMING ADVANCED LEVEL\*** (Grades 5 - 8)

April 6, 13 and 27; May 4, 11, 18  
and 25; June 1, 8 and 15  
(10 Saturdays; no class on April 20)

## **QUANTUM MECHANICS FOR EVERYONE!\*\***

March 21 and 28 (two Thursdays)

## **RASPBERRY PI PROGRAMMING, TINKERING AND MAKING INTERMEDIATE LEVEL\***

(Grades 5 - 8)  
April 1, 8, 22 and 29; May 6, 13, 20  
and 27; June 3 and 10  
(10 Mondays; no class on April 15)

## **ROBOTICS AND ENGINEERING INTERMEDIATE LEVEL\***

(Grades 5-8)  
March 30; April 6, 13 and 27; May 4, 11,  
18 and 25; June 1 and 8  
(10 Saturdays; no class on April 20)

## **SAT MATHEMATICS\***

(Grades 9 - 12)  
March 9, 16, 23 and 30; April 6, 13, 20  
and 27 (eight Saturdays) or  
March 14, 21 and 28; April 4, 11, 18  
and 25; May 2 (eight Thursdays)

## **SAT WRITING, LANGUAGE, READING AND ESSAY\***

(Grades 9 - 12)  
March 9, 16, 23 and 30; April 6, 13, 20  
and 27 (eight Saturdays) or  
March 11, 18 and 25; April 1, 8, 15, 22  
and 29 (eight Mondays)

## **SCULPTURE AND CLAY\***

(Grades 5 - 8)  
April 2, 9, 23 and 30; May 7, 14, 21  
and 28; June 4  
(10 Tuesdays; no class on April 16)

## **SILK EMBROIDERY PAINTING\*\***

Feb. 23; March 2, 9, 16, 23 and 30; April 6  
and 13 (eight Saturdays)

## **YOU'RE ON THE AIR: HOW TO MAKE IT IN VOICE-OVERS\*\***

Feb. 9 or April 13 (one Saturday)

**Courses marked with (\*): Visit [deanza.edu/academy](http://deanza.edu/academy) for course descriptions and to register.**

**Courses marked with (\*\*): Students under 18 must take these courses with an adult who has already registered.**

**Visit [deanza.edu/shortcourses](http://deanza.edu/shortcourses) for course descriptions and to register.**

# DeAnza College

# ACADEMY

## SUMMER YOUTH ENRICHMENT PROGRAM FOR GRADES 1-12

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## GENERAL REGISTRATION INFORMATION

### Welcome to the De Anza College Summer Enrichment Program

We offer a wide selection of fee-based, noncredit enrichment classes – many involving hands-on projects – designed for students entering grades 1-12.

### Online Registration Dates

Grades 1-9: Feb. 20-June 10 | Grades 9-12: Feb. 20-July 8

### Class Dates

Grades 1-9: June 17-July 12 | Grades 9-12: July 15-Aug. 2

### What are the QUALIFICATIONS of the instructors?

Our highly experienced, credentialed instructors come from universities, colleges, public and private high schools, and K-12 districts. Our programming, robotics and integrated engineering teachers bring extensive knowledge from schools like MIT and SJSU, companies such as Google and HP, and the Stanford School of Medicine.

### Where are CLASSES held?

We offer classes at three convenient and accessible sites in Cupertino and Sunnyvale – St. Joseph of Cupertino School, Cupertino Middle School, and De Anza College.

### How can students ENROLL in the program?

Visit [deanza.edu/academy](http://deanza.edu/academy) to review program details and check class availability at each location.



### **PREP FOR SUCCESS – GRADE 1**

(4 hours and 25 minutes) ★

**Entering Grade 1** – This course is designed to ease the student transition from kindergarten to the first grade. Students will follow an integrated reading readiness and language arts program as well as develop critical thinking skills through mathematics. This all-morning option allows first-grade students to work with the same teacher and in the same classroom throughout the day.

### **AFTER-SCHOOL ENRICHMENT (2 hours)**

**Entering Grades 1 and 2** – This after-school enrichment option for first and second grade provides parents and guardians with the option of an extended day. Students in the after-school program will be supervised and provided revolving enrichment activities in physical recreation, art, science, speaking skills and more. Students must bring their own lunch every day.

## **ART AND DESIGN**

### **ART AND SCIENCE**

**Entering Grades 2 and 3** – Both science and art involve examining and explaining the world around us. This class will focus on creativity, curiosity, imagination and attention to details – traits that artists and scientists share. Students will learn about patterns in nature, animals and habitats, the Earth and space, and scientific investigation through artistic processes.



Art and Design courses are offered in partnership with the Euphrat Museum of Art at De Anza College.

[deanza.edu/euphrat](http://deanza.edu/euphrat)

EUPHRAT  
MUSEUM OF ART

### **CLAY AND SCULPTURE**

**Entering Grades 2 and 3** – Students in this class will learn to work with clay and other materials to create original works of art. They will practice a variety of clay and sculpture construction techniques and improve their three-dimensional visual thinking and problem-solving skills. Projects will include relief tiles, action figures, animal habitats and much more. Clay projects will be fired and glazed.

### **DIGITAL ART AND ANIMATION**

**Entering Grades 3-5** – Students will learn to use a variety of computer drawing, painting and cartooning programs to create original digital works of art and short animations. They will learn the steps for turning drawings into animations, from creating and refining images to adding backgrounds and exporting files as Adobe Flash animations. The class will also cover fundamental art concepts and vocabulary. Students will be provided with a USB flash drive for saving work.

### **DIGITAL COMICS AND CARTOONING**

**Entering Grades 3-5** – This class will explore the secrets of digital magic as students learn about creating cartoons and comics in a variety of visual styles, including manga and enhanced photo-realism. Students will analyze content and narrative devices such as flashbacks and foreshadowing, and explore the cultural and historical aspects of cartooning. They also will learn to apply key art and design principles that will make their work shine. Students will be provided with a USB flash drive for saving work.

★ *Meets Common Core standards*

## DRAWING AND CARTOONING

**Entering Grades 4 and 5** – In this class, students will have fun while learning a variety of drawing and cartooning techniques and styles. Students will learn to draw from life and imagination, and study shape mapping, shading, proportions and perspective. From character design to story development, students will be encouraged to develop their own style and strengthen creative thinking skills, focus and attention to details.

## FINE ART STUDIO

**Entering Grades 3-5** – Young artists in this class will explore a variety of fine art media including drawing, painting, clay and sculpture. Students will learn to communicate their ideas in both two and three dimensions, while improving their core learning skills and focus. Projects will be presented in a step-by-step format and build on prior knowledge. Students will also learn about artists and art forms from around the world.

## COMPUTER PROGRAMMING, ENGINEERING AND ROBOTICS

### PYTHON PROGRAMMING – BEGINNING LEVEL

**Entering Grades 3-5** – This course introduces students to basic elements of the Python programming language, including data types, control structures, algorithm development and program design with functions. Students will also define new object classes, create interactive applications with buttons, learn about animation and create an interactive game using Python. The class will also cover fundamental principles of object-oriented programming, as well as data- and information-processing techniques.



### PYTHON PROGRAMMING – INTERMEDIATE LEVEL

**Entering Grades 3-5** – This course will help students strengthen their skills and build on what they have learned in previous introductory programming classes. Through practical examples, students will gain a deeper understanding of Python programming and how it is applied in the real world. Projects will reinforce their understanding of fundamentals while encouraging experimentation and exploration. Students will learn about building a platform and applications using Python installation, variables, operators, strings, lists, tuples and maps, Turtle, drawing, conditional statements, loops, functions, objects and classes.



## MATHEMATICS

### **MATH PREPARATION – GRADE 2** (2 hours) ★

**Entering Grade 2** – Students will focus on operations and algebraic thinking, numbers and operations in base 10, measurement and data as well as geometry. The course will address even and odd numbers, rounding, telling time in five-minute increments, counting money, adding and subtracting double- and triple-digit numbers, and solving word problems. Students will gain a deeper understanding of place value and problem-solving, and will work with equal groups to gain foundations for multiplication. The concepts taught in this class will assist students in acquiring the mathematical foundation needed for the next grade level.

### **MATH PREPARATION – GRADE 3** (2 hours) ★

**Entering Grade 3** – This course is designed to teach the main strands of third-grade math with a focus on operations and algebraic thinking, place value, fractions, measurement and data as well as geometry. The instructor will address multiplication and division facts, patterns and properties, area and perimeter, sorting triangles and quadrilaterals, adding and subtracting decimals, money, and solving word problems. Students will have the opportunity to develop an advanced repertoire of skills and strategies in an environment that encourages critical thinking, collaboration, communication and creativity. The concepts taught in this class will assist students in acquiring the mathematical foundation needed for the next grade level.

### **MATH PREPARATION – GRADE 4** ★

**Entering Grade 4** – This class will introduce students to themes and concepts of algebra, geometry and statistics. Students will use hands-on applications and problem-solving exercises designed to promote



conceptual understanding and enhance logical thinking skills. Additional topics include place value, rounding, estimating, identifying prime and composite numbers as well as prime factoring. Through complex problem-solving, students will practice fundamentals of addition, subtraction, multiplication and division.

### **MATH PREPARATION – GRADE 5** ★

**Entering Grade 5** – This class will help students increase their fluency with fractions, including addition and subtraction of fractions and multiplication and division of unit fractions with whole numbers. The instructor will also cover division extended to two-digit divisors, decimal fractions integrated in the place value system and operations with decimals to the hundredth place. Students will learn problem-solving strategies and deepen their understanding of area and volume.

★ *Meets Common Core standards*

*The Math Preparation series is designed to introduce key Common Core math concepts from the upcoming year while reinforcing the prior year's most essential carryover skills.*



## SCIENCE

### SCIENCE FOR BETTER BRAINS

**Entering Grades 3-5** – Boost your brainpower through physical, earth and life science. This class will experiment with water densities, work with static electricity, build a working motor, explore space missions of the past and present, learn about bioluminescence and much more.

### SPACE SCIENCE EXPLORATION

**Entering Grades 3-5** – Join this exploration of space and astronomy, with activities, games and short videos about the earth, moon, sun, solar system, stars and the tools that scientists use to learn about them. Students will build telescopes, learn about the size and scale of objects in space, discover the constellations, learn secrets of light and study space probes that are exploring Mars and distant parts of the solar system. This course is offered in partnership with the De Anza College Planetarium.

## SPEECH AND DEBATE

### PUBLIC SPEAKING

**Entering Grades 3-5** – Students will learn to strengthen their oral communication, project self-confidence and engage their audience. This class will examine word choice, projection, enunciation, eye contact and body language. Students will practice the necessary skills and learn valuable techniques to effectively capture and hold audience attention. As audience members, students will also learn active listening techniques, and how to evaluate and provide appropriate feedback to their peers.



## SPORTS AND GAMES

### CHESS SKILLS AND TOURNAMENTS

**Entering Grades 2-5** – Chess promotes logic, problem-solving and concentration. This course will provide basic instruction and intermediate strategies. Students will increase planning and develop their ability to “see the board.” The class will review basic moves, work on strategy and participate in tournaments.

### FIELD GAMES FOR FITNESS AND FUN

**Entering Grades 2-5** – Students will learn about fitness and health as they play a variety of games in this highly active course, which is designed to get students moving before the academic day begins. Activities include soccer, track and field, obstacle courses and stretching techniques – in a fun and relaxed environment that will help students perform at their best throughout the day.

### BASKETBALL SKILLS AND DRILLS

**Entering Grades 3-5** – Students will improve their basketball skills and develop an appreciation for this exciting, fast-paced sport. Through a variety of drills and games, students will learn and practice the fundamentals of dribbling, passing and shooting. Teamwork, self-confidence and sportsmanship will be stressed on a daily basis. Modifications will be made to accommodate all skill levels. This is a coed class that is held outdoors. Rubber-soled athletic shoes are required. Students should also bring a water bottle, sunscreen and hat.

## WRITING, READING AND VOCABULARY

### READING, WRITING AND VOCABULARY ADVANCEMENT – GRADE 2 (2 hours) ★

**Entering Grade 2** – This class is designed to strengthen the reading foundation and writing skills of students reading at or near the second-grade level. The course will focus on improving fluency, increasing reading comprehension and developing vocabulary. Through a variety of reading materials, students will have the opportunity to develop reading skills and strategies for better reading and retention. The course will also cover writing skills, since learning is enhanced when the reading and writing processes are connected.

### READING, WRITING AND VOCABULARY ADVANCEMENT – GRADE 3 (2 hours) ★

**Entering Grade 3** – This class is designed to strengthen the reading foundation and writing skills of students reading at or near the third-grade level. The course will focus on improving fluency, increasing reading comprehension and expanding vocabulary. Students will develop skills and strategies for better reading, and apply them while exploring grade-appropriate poetry, fiction, nonfiction and theater. The course will also cover writing skills, since learning is enhanced when the reading and writing processes are connected.

### READING, WRITING AND VOCABULARY ADVANCEMENT – GRADE 4 ★

**Entering Grade 4** – This class is designed to strengthen the reading foundation and writing skills of students reading at or near the fourth-grade level. The course will focus on improving fluency, increasing reading comprehension and expanding vocabulary. Students will develop skills and strategies for better reading, and apply them while exploring grade-appropriate poetry, fiction, nonfiction and theater. The course will also cover writing skills, since learning is enhanced when the reading and writing processes are connected.

### ESSAY WRITING FOR GRADE 5 ★

**Entering Grade 5** – This course will emphasize the fundamentals of expository and informational writing. Students will acquire the skills to write well-organized paragraphs, summaries and essays. The class will also cover “pre-writing” techniques, syntax, word choice, grammar, punctuation and revision. Students will learn to engage in writing as a process, paying particular attention to diction and structure. This highly interactive class includes peer review, writing workshops and a final portfolio that students can take home to demonstrate their progress.

★ *Meets Common Core standards*





## ST. JOSEPH SCHOOL OF CUPERTINO

COURSE DESCRIPTIONS	CLASS 1 8:10-9:10 a.m.	CLASS 2 9:15-10:15 a.m.	BREAK 10:15- 10:25 a.m.	CLASS 3 10:30-11:30 a.m.	CLASS 4 11:35 a.m.- 12:35 p.m.	LUNCH BREAK 12:35- 1 p.m.	AFTER SCHOOL CLASS: 1:05-3 p.m.	FEE
Grade 1: Prep for Success (4.5 hours)	6492							\$995
Grades 1-2: After-School Enrichment							6482	\$475
Grade 2: Math Preparation (2 hours)	6549			6551				\$625
Grade 2: Reading, Writing and Vocabulary Advancement (2 hours)	6493			6494				\$625
Grades 2-3: Art and Science		6475						\$325
Grades 2-3: Clay and Sculpture				6476				\$325
Grades 2-5: Chess Skills and Tournaments		6541		6543				\$325
Grades 2-5: Field Games for Fitness and Fun	6486	6487						\$325
Grade 3: Math Preparation (2 hours)	6553			6554				\$625
Grade 3: Reading, Writing and Vocabulary Advancement (2 hours)	6497			6499				\$625
Grades 3-5: Basketball Skills and Drills	6483	6484		6485				\$325
Grades 3-5: Digital Art and Animation		6503			6505			\$375
Grades 3-5: Digital Comics and Cartooning				6508				\$375
Grades 3-5: Fine Art Studio							6478	\$625
Grades 3-5: Public Speaking		6479		6480	6481			\$325
Grades 3-5: Python Programming - Beginning Level		6488		6489	6490			\$375
Grades 3-5: Python Programming - Intermediate Level	6491							\$375
Grades 3-5: Science for Better Brains	6528	6531		6533	6537			\$375
Grades 3-5: Space Science Exploration					6538			\$325
Grade 4: Math Preparation		6558		6560	6561			\$325
Grade 4: Reading, Writing and Vocabulary Advancement		6514		6517	6519			\$325
Grades 4-5: Drawing and Cartooning					6477			\$325
Grade 5: Essay Writing		6521		6523	6526			\$325
Grade 5: Math Preparation	6717	6562		6563	6564			\$325

## ART AND DESIGN

### DIGITAL ART AND GRAPHIC DESIGN

**Entering Grades 6-9** – Students in this class will learn to create dynamic digital drawings and illustrations as well as logos, eye-catching web banners and special effects using new design software. Students will use Shape Builder, blending and 3D conversion tools to convert photos into vector images, make animated GIFs and more. Creative and critical thinking exercises will help inspire originality. Students should bring a USB flash drive for saving work.

### DIGITAL COMICS AND CARTOONING

**Entering Grades 6-9** – This class will explore the secrets of digital magic, as students learn about creating cartoons and comics in a variety of visual styles including manga and enhanced photorealism. Students will analyze content and narrative devices such as flashbacks and foreshadowing, and explore the cultural and historical aspects of cartooning. They also will learn to apply key art and design principles that will make their work shine. Students will be provided with a USB flash drive for saving work.

### DRAWING AND PAINTING STUDIO

**Entering Grades 6-9** – In a focused studio atmosphere, students will learn and practice classical and contemporary drawing and painting techniques. Students will strengthen observational and creative thinking, sharpen rendering skills and gain confidence in their artistic abilities. Lessons will include multi-point perspective, depicting shadow and light sources as well as creating dynamic compositions.

### PAINTING AND PRINTMAKING

**Entering Grades 6-9** – This new class will cover a variety of painting techniques and printmaking methods, with an emphasis on enhancing creativity and building artistic confidence. Students will learn and practice acrylic and watercolor painting, as well as silk-screen, linoleum-cut and wood-block prints. Students will be encouraged to develop a personal style as they sharpen their problem-solving and communication skills.

### SCULPTURE AND CERAMICS

**Entering Grades 6-9** – Students in this class will create original sculptures and ceramic artwork in a focused studio environment. They will learn and practice different clay and sculpture techniques, while strengthening observational, analytical and creative thinking skills. Students also will view works by notable sculptors from around the world and design their own masterpieces. Ceramic projects will be glazed and fired.



Art and Design courses are offered in partnership with the Euphrat Museum of Art at De Anza College.

[deanza.edu/euphrat](http://deanza.edu/euphrat)



## COMPUTER PROGRAMMING, ENGINEERING AND ROBOTICS

### 3D DESIGN MODELING AND PRINTING

**Entering Grades 6-9** – In this class, students will gain 3D-modeling skills as they create their own designs using Tinkercad and other design software. Students will create several printable models and learn how to use 3D printers and slicing software. The class will also explore the latest uses of 3D modeling in medicine, industry and construction. Working individual and in small teams – with plenty of hands-on time – students will learn about all aspects of the 3D process, from design to printing. This course is offered in partnership with the Krause Center for Innovation.

### INTEGRATED ENGINEERING – TINKER, EXPERIMENT AND INVENT

**Entering Grades 6-9** – This class will teach how to tinker, experiment and invent while applying principles of engineering design and design thinking. Students will learn the fundamentals of programming the BBC micro:bit and Adafruit Circuit Playground Express. As they learn the capabilities of these two platforms, students will be challenged to solve real-world

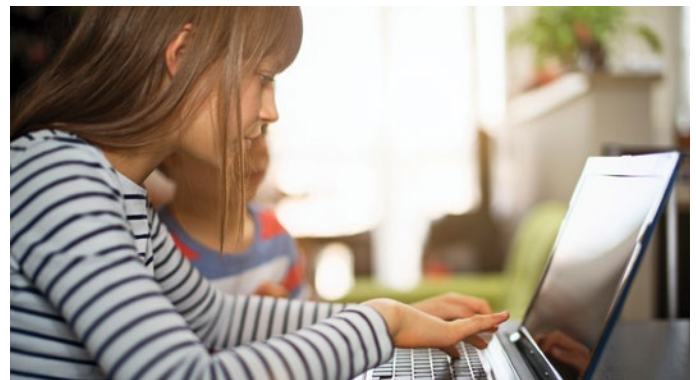
problems. Students will also use cardboard engineering in combination with these platforms for prototyping new products. The class will learn to solve problems identified through observations and interests. This course is offered in partnership with the Krause Center for Innovation.

### JAVA PROGRAMMING – BEGINNING LEVEL (2 hours)

**Entering Grades 6-9** – This course is an introduction to computer programming with the Java language, using object-oriented programming principles. Students will learn about Java primitive and non-primitive data types, control flow constructs, built-in class libraries and object-oriented programming concepts such as classes, objects, method overloading and encapsulation. Typical assignments will cover built-in and programmer-defined classes, basic input and output operations, and solving programming problems.

### JAVA PROGRAMMING – INTERMEDIATE LEVEL (2 hours)

**Entering Grades 6-9** – This class is for students who have basic Java programming skills and want to start building real-world applications. Java provides a vast set of tools that can be used for games and websites. This class will include object-oriented programming and some of the advanced tools that are commonly used on Java development projects – including inheritance and abstraction, interfaces, nested classes, regular expressions, collections, dates and I/O.





**LEGO COMPUTER ROBOTICS:  
MINDSTORMS EV3 (2 hours)**

**Entering Grades 6-8** – Using the newest technology from Lego Education, students will gain practical, hands-on experience with science, technology, engineering and math concepts. This course is designed for students who want to expand their programming skills to the next stage using EV3, data logging and CAD software. Students will develop creative thinking and problem-solving skills while they learn core engineering principles. Working in teams, students will construct robot designs using sensors and motors. Students will learn programming skills and engineering design with the EV3 “intelligent brick,” using Lego servo-style motors along with touch, color, gyro and ultrasonic sensors. This class is great preparation for students interested in robotics competitions such as RoboGames and First Lego League. Prior experience in robotics is not required.

**LEGO COMPUTER ROBOTICS:  
MINDSTORMS NXT (2 hours)**

**Entering Grades 6-8** – This class is an exciting, in-depth exercise in building and programming robots using the Lego Mindstorms NXT robotics system. Students will learn programming skills and engineering design basics with the NXT “intelligent brick,” using servo-style motors along with touch, light and ultrasonic sensors. Students will build a variety of robots and program them with a computer to move, react and make sounds, while solving weekly game challenges. The course also teaches teamwork skills as students collaborate in pairs and small teams, sharing an NXT robotics kit and computer. This class is great preparation for students interested in robotics competitions such as RoboGames and First Lego League. Prior experience in robotics is not required.


**PRODUCT DESIGN AND MARKETING  
USING TECHNOLOGY**

**Entering Grades 6-9** – How does an entrepreneur get a great new product into customers’ hands? This class will cover the latest software tools and best practices for developing and marketing. Students will start with the basics of designing a new product, including a logo and tagline, and explore key aspects of product marketing. Students will also learn how to create infographics and advertisements, design web pages, and create and edit photos and videos that tell the story of a new product. The course will culminate with students creating a testimonial video about their product, and sharing what they’ve created with their classmates. This class is offered in partnership with the Krause Center for Innovation.

**PYTHON PROGRAMMING –  
BEGINNING LEVEL (2 hours)**

**Entering Grades 6 and 7; Entering Grades 8 and 9**  
*(Offered for two age groups in separate classes)* – This course introduces students to basic elements of the Python programming language, including data types, control structures, algorithm development and program design with functions. Students will define new object classes, create interactive applications with buttons, learn about animation and build an interactive game using Python. The instructor will also cover fundamental principles of object-oriented programming, as well as data- and information-processing techniques.

**PYTHON PROGRAMMING –  
INTERMEDIATE LEVEL (2 hours)**

**Entering Grades 6 and 7; Entering Grades 8 and 9**  
*(Offered for two age groups in separate classes)*  
This course will help students strengthen their skills and build on what they have learned in previous introductory programming classes. Through practical examples, students will gain a deeper understanding of Python programming and how it can be applied in the real world. Projects will

**PYTHON  
BOOTCAMP**  
ONE-WEEK  
SPECIALTY CAMP  
**JULY 8-12**  
SEE INSIDE  
BACK COVER

reinforce understanding of fundamentals while encouraging experimentation and exploration. Students will learn about building a platform and applications using Python installation, variables, operators, strings, lists, tuples and maps, Turtle, drawing, conditional statements, loops, functions, objects and classes.

### **PYTHON PROGRAMMING FOR THE RASPBERRY PI (2 hours)**

**Entering Grades 6 and 7; Entering Grades 8 and 9**  
*(Offered for two age groups in separate classes)*

The course builds on basic programming skills, giving students the opportunity to apply programming knowledge to the Raspberry Pi and peripherals as they mimic and debug real-world Python applications. Class sessions include time to work on programs with help from the instructor. The course fee includes the Raspberry Pi and associated components, including sensors and servos. Students will keep the Raspberry Pi that they use in class.

## **FOREIGN LANGUAGE**

### **SPANISH – BEGINNING LEVEL**

**Entering Grades 6-9** – Students will learn basic vocabulary and grammar, including practical phrases, in a setting that integrates listening, speaking and reading skills. The class will also explore the culture and customs of Spanish-speaking countries.



★ *Meets Common Core standards*

*The Math Preparation series is designed to introduce key Common Core math concepts from the upcoming year while reinforcing the prior year's most essential carryover skills.*

## **MATHEMATICS**

### **MATH PREPARATION – GRADE 6 ★**

**Entering Grade 6** – Students in this course will apply their knowledge of multiplication and division to solve ratio and rate problems. They will extend their knowledge of fractions and learn to explain, in their own words, how dividing and multiplying fractions follows logical mathematical processes. Students will also learn problem-solving strategies and deepen their understanding of rational numbers, absolute value, expressions and equations.

### **MATH PREPARATION – GRADE 7 ★**

**Entering Grade 7** – Students in this course will extend their knowledge of ratios and apply proportionality concepts in solving single- and multi-step problems, expressions and equations. Students will learn problem-solving strategies as they deepen their understanding of two- and three-dimensional figures, while making connections to scale drawings.

### **MATH PREPARATION – GRADE 8 ★**

**Entering Grade 8** – Students in this class will extend their knowledge of expressions and equations, including modeling an association in bivariate data with a linear equation, and solving both linear equations and systems of linear equations. Students will also learn about functions and using functions to describe quantitative relationships. In addition, the class will explore problem-solving strategies as students deepen their understanding of two- and three-dimensional space and figures, while using distance, angle, similarity and congruence. The course also covers understanding and applying the Pythagorean Theorem.

**ALGEBRA SKILLS DEVELOPMENT ★**

**Entering Grades 6 and 7** – This course focuses on the expressions and equations domain of the Common Core State Standards for sixth and seventh grades, with some limited exposure to eighth-grade algebra concepts as well. The course will identify pre-algebraic and algebraic concepts from integrated frameworks for a focused study. Students will use properties of operations to generate equivalent expressions and solve problems by using numerical and algebraic expressions and equations. Students will apply properties of operations as strategies to add, subtract, factor and expand linear expressions with rational coefficients, in addition to using variables to represent quantities in real-world and mathematical problems. The class will also cover performing arithmetic operations with variables, including those involving whole-number exponents, in the conventional order. Students will learn about graphing and proportional relationships.

**INTRODUCTION TO HIGH SCHOOL ALGEBRA 1 ★**

**Entering Grades 8 and 9** (*Recommended prerequisite: Students should be enrolled in Algebra 1 for the 2019-20 school year*) – This class will introduce students to major themes and concepts in first-year algebra. Students will engage in hands-on applications and problem-solving exercises designed to promote conceptual understanding and enhance logical thinking skills. Topics covered will include properties in algebra, polynomials, solving and applying equations, factoring, the quadratic formula, solving and graphing linear and variable equations, radical expressions and other subjects as time permits.

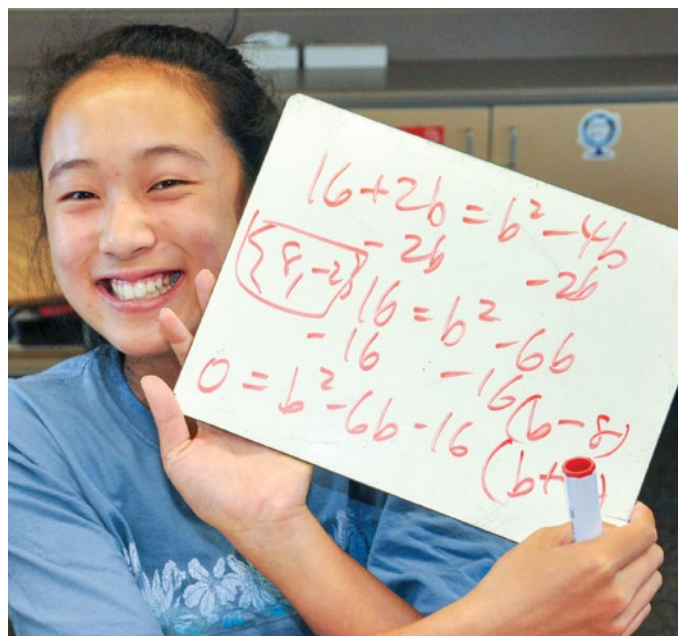
**INTRODUCTION TO HIGH SCHOOL ALGEBRA 2 – FOUNDATIONS FOR FUNCTIONS ★**

**Entering Grades 8 and 9** (*Recommended prerequisites: Students should have completed Algebra 1 and Geometry, and be enrolled in Algebra 2 for the 2019-20 school year*) – This course emphasizes critical thinking, understanding of real-world applications and the use

of advanced problem-solving techniques. Students will gain an understanding of functions through a graphical approach to contextualizing relations, including linear, quadratic, absolute value, exponentials and polynomial rational expressions. Students also will learn how to define every relation as a transformation and translation of a parent function. Students should bring a pencil, eraser, small ruler, graph paper and TI-84 calculator (or equivalent) daily.

**INTRODUCTION TO HIGH SCHOOL GEOMETRY AND SPATIAL SENSE ★**

**Entering Grades 8 and 9** (*Recommended prerequisite: Students should be enrolled in Geometry for the 2019-20 school year*) – This course will introduce students to Euclidean geometry and assist them in understanding two- and three-dimensional space. Students will develop important basic geometry skills and explore various proofs through logical deduction. The course will include hands-on explorations of geometric transformations, similar and congruent polygons, area and volume of solids, 2D and 3D polygons and polyhedra as well as the Pythagorean theorem.



★ *Meets Common Core standards*



**INTRODUCTION TO HIGH SCHOOL  
PROBABILITY AND STATISTICS ★**

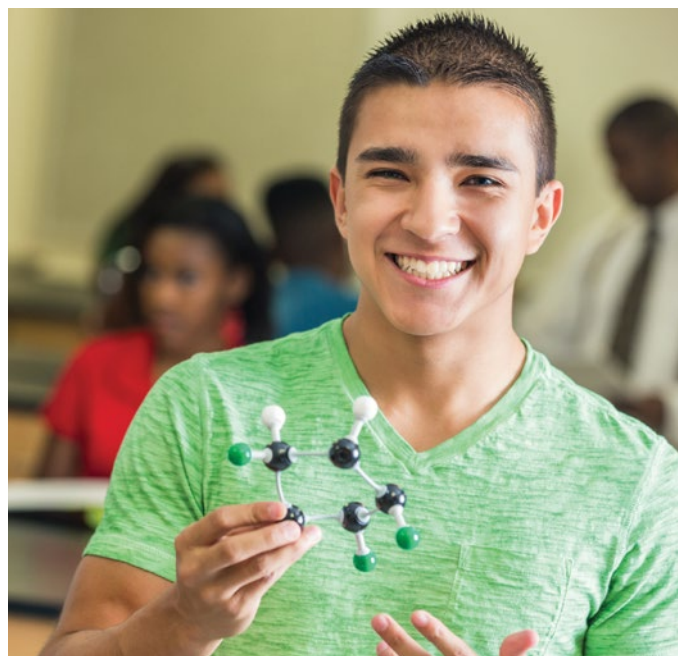
**Entering Grades 8 and 9** – This course introduces students to the fundamental concepts of statistics and probability. Students will learn how to design studies that produce useful data, as well as how to analyze categorical data, how to display quantitative data with graphs and how to describe quantitative data with numbers. Students will study sampling and surveys as well as experiments and techniques for analyzing studies wisely. Students will learn how to calculate probabilities and how to interpret results in plain language.

**TRIGONOMETRY FUNCTIONS  
AND APPLICATIONS ★**

**Entering Grades 8 and 9** (*Recommended prerequisites: Students should have completed Algebra 1, Geometry and Algebra 2*) – Students will learn to convert to radians, find arc and sector lengths, and study the six preliminary trigonometric functions. Students will use the terminal ray of an angle in standard position, graph the functions and use the unit circle. Students should bring a pencil, eraser, small ruler, graph paper and TI-84 (or equivalent) calculator daily.

**SCIENCE****ASTRONOMY LAB**

**Entering Grades 6-8** – This hands-on class will focus on what astronomers know about the sun, moon, solar system, stars and galaxies, and the clever ways they glean this information from visible and invisible light. Students will study and build simple telescopes and spectrometers, explore parallax and other techniques, learn to use a star chart and examine strange stars and planets circling other suns. Students also will create images of these objects by using a robotic telescope network. This course is offered in partnership with the De Anza College Planetarium.

**FUN WITH PHYSICS!**

**Entering Grades 6 and 7** – Physics examines the universe around us, including what we experience physically and how we can explain those experiences mathematically. This class is designed to help students better describe the physical world through key physics principles. Students will build projects and kits to take home for continued study. They will explore forces, energy and motion by building spectrometers, solar cars and more, and by analyzing weather and atmospheric data while using simple, everyday materials.

**PHYSICS LAB**

**Entering Grades 8 and 9** – Students will learn key physics principles by following kit assembly instructions to build their own projects, and by working in teams to modify projects and compete in design challenges. The class will explore the interaction of forces, motion and energy by building bridges, speakers, windmills and solar circuits using simple, everyday materials.

★ **Meets Common Core standards**

## CHEMISTRY FUNDAMENTALS

**Entering Grades 8 and 9** – This course is designed to preview some of the main topics addressed in high school chemistry, including dimensional analysis, the periodic table, stoichiometry and gas laws. Students will be challenged to solve problems and answer complex questions through pairs and group work. This is not a lab class, but students will complete activities and projects such as building their own periodic table and creating molecule models to promote understanding and retention.

## INTRODUCTION TO HIGH SCHOOL BIOLOGY LABS AND SKILLS

**Entering Grade 9** – This course will introduce students to high school biology lab skills and lab-based applications of Common Core seventh- and eighth-grade life science standards. Students will gain a practical foundation for understanding the structure and function of multicellular organisms, as they explore processes such as cellular respiration, osmosis, diffusion, DNA and protein synthesis through hands-on collaborative labs. Students also will assemble an interactive notebook and create scientific diagrams to aid their understanding and retention of the fundamentals of biology.



## SPEECH AND DEBATE

### DEBATE AND CRITICAL THINKING

**Entering Grades 6 and 7** – This course will challenge students to present ideas in a clear, logical and engaging style. This course refines public-speaking skills and introduces two high school debate formats: Lincoln-Douglas and Public Forum. Students will debate current events, hold an in-class tournament and learn how to be great speakers and debaters.

### INTRODUCTION TO HIGH SCHOOL DEBATE RESEARCH AND STRATEGIES

**Entering Grades 8 and 9** – This course refines public speaking skills and introduces some of the fundamental skills of organized classroom debate, including researching, writing and then orally debating a case. Special focus will be paid to argumentation, rebuttal and cross-examination techniques. This course sets a framework for students to develop their reasoning and articulation skills, which are beneficial to all academic studies. Students will debate current events, hold an in-class tournament and learn how to be great speakers and debaters. The class will also cover Congressional and Parliamentary Debate, Policy Debate and Lincoln-Douglas structures and strategies.

### PUBLIC SPEAKING

**Entering Grades 6 and 7; Entering Grades 8 and 9**  
*(Offered for two age groups in separate classes)*

Students will learn the skills and techniques required for effective public speaking, including communication skills, eye contact, voice projection, body contact and listening, as well as self-evaluation techniques. Students will practice presenting various types of speeches in front of an audience. Development of self-confidence and poise will be an integral part of this class. The eighth- and ninth-grade course will encounter more mature topics and more frequent critiques than the sixth- and seventh-grade course.

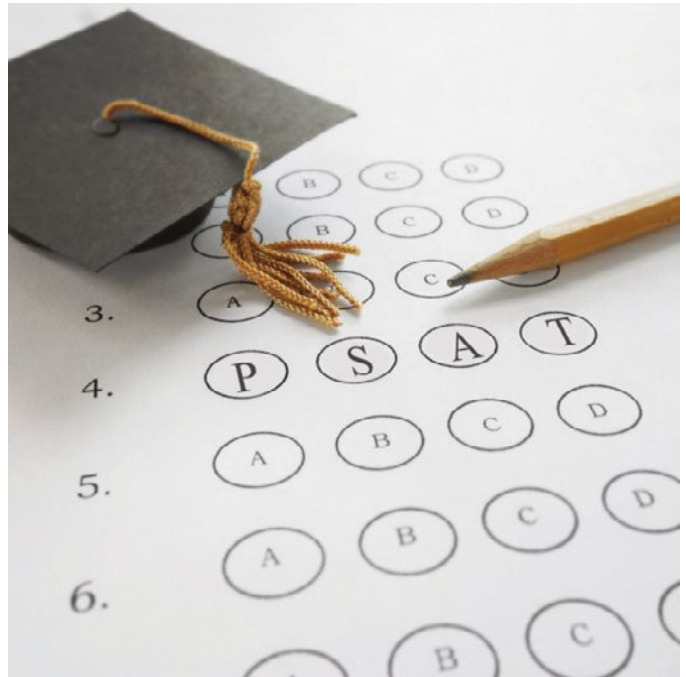
## BASKETBALL AND CHESS

### BASKETBALL

**Entering Grades 6-9** – Students will improve their basketball skills and develop their appreciation of this exciting, fast-paced sport. Through a variety of drills and games, students will learn and practice the fundamentals of dribbling, passing and shooting. Teamwork, self-confidence and sportsmanship will be stressed on a daily basis. Accommodations will be made for all skill levels. This is a coed class that is held indoors. Rubber-soled athletic shoes are required.

### CHESS SKILLS AND TOURNAMENTS

**Entering Grades 6-9** – Chess promotes logic, problem-solving and concentration. This course will provide basic instruction and intermediate strategies. Students will develop their abilities to plan and “see the board.” The class will review basic moves, work on strategy and participate in tournaments.



## TEST PREPARATION

### PSAT MATH PREPARATION

**Entering Grades 7-9** – This course will help students develop a personalized plan for PSAT preparation, and provide extensive practice opportunities for the Mathematics sections of the PSAT. Students will study essential facets of arithmetic, algebra, geometry, data analysis and logic that directly relate to PSAT and SAT performance, including linear equations and systems in algebraic expressions, data analysis and quantitative literacy, and fluency with complex equations.

### PSAT READING AND WRITING PREPARATION

**Entering Grades 7-9** – This course will help students develop a personalized plan for PSAT preparation, and provide extensive practice opportunities for the Reading, Writing and Language sections of the PSAT. Students will follow a plan for vocabulary enhancement and use class time to focus on skills development – including evidence-based interpretations, applying context in analysis, and using organization and structure for sentences, passages and essays.



## WRITING, READING AND VOCABULARY

### ADVANCED MIDDLE SCHOOL WRITING WORKSHOP (2 hours) ★

**Entering Grades 6 and 7** – As middle school students take that important step from elementary to secondary school, it is important for them to master the writing process. This course will help students learn to write well and develop the skills to excel in all the writing tasks that middle schools demand. Students will receive intensive daily instruction on writing technique, ample time to write and revise, and individual feedback on their work.

### ADVANCED HIGH SCHOOL WRITING WORKSHOP (2 hours) ★

**Entering Grades 8 and 9** – Writing is an essential skill for academic success in high school. This class is for students who want to prepare for advanced writing in high school or improve their writing in school generally – and for those who simply love to write. Students will improve their abilities in academic and expository genres, and all forms of written expression. Students will receive intensive daily instruction on writing technique, ample time to write and revise, and individual feedback on their work.

### CRAFTING THE HIGH SCHOOL ESSAY ★

**Entering Grades 8 and 9** – This interactive course will focus on writing personal narratives, expository essays, compare-and-contrast essays and persuasive essays. Students will also learn how to engage in writing as a process, with particular attention paid to diction, argumentation and thoughtful integration of evidence. This highly interactive class includes peer review, writer's workshops and a final portfolio that students can take home to demonstrate their progress. Students will be expected to bring a journal to class for daily note taking and writing practice.

### EXPOSITORY READING AND WRITING WORKSHOP (2 hours) ★

**Entering Grades 8 and 9** – Expository reading and writing skills will help students excel on the reading and writing portions of standardized tests, while developing lifelong literacy. In this course, students will learn to read critically, make predictions about texts, analyze content and rhetorical structures, and properly use materials from texts to support their own written arguments. Readings will be enhanced through expository writing, most often through timed essays. Students will learn to organize ideas and construct persuasive arguments that advance their own ideas with a developed voice.

★ *Meets Common Core standards*





**GRAMMAR, VOCABULARY AND WRITING STRUCTURES: GRADE 6 ★**

**Entering Grade 6** – This course offers students the opportunity to improve their writing skills and expand their academic vocabulary. They will carry out writing assignments based on readings from a variety of informational texts that are appropriate to the grade level. Students will learn to write a variety of sentence types and incorporate them into expository paragraphs and short essays. The class will also include focused grammar study. Students will learn to diagram sentences and will leave the course with a portfolio of their work.

**GRAMMAR, VOCABULARY AND WRITING STRUCTURES: GRADE 7 ★**

**Entering Grade 7** – This course offers students the opportunity to improve their writing skills and expand their academic vocabulary. They will carry out writing assignments based on readings from a variety of

informational texts that are appropriate to the grade level. Students will learn to write a variety of sentence types and incorporate them into expository paragraphs and short essays. The class will also include focused grammar study. Students will learn to diagram sentences and will leave the course with a portfolio of their work.

**GRAMMAR, VOCABULARY AND WRITING STRUCTURES: GRADE 8 ★**

**Entering Grade 8** – This course offers students the opportunity to improve their writing skills and expand their academic vocabulary. They will carry out writing assignments based on readings from a variety of informational texts that are appropriate to the grade level. Students will learn to write a variety of sentence types and incorporate them into expository paragraphs and short essays. The class will also include focused grammar study. Students will learn to diagram sentences and will leave the course with a portfolio of their work.

★ *Meets Common Core standards*

June 17-July 12

# GRADES 6-9

COURSE DESCRIPTIONS

## CUPERTINO MIDDLE SCHOOL

COURSE DESCRIPTIONS	CLASS 1 8:30-9:30 a.m.	CLASS 2 9:35-10:35 a.m.	BREAK 10:35-10:50 a.m.
Grade 6: Grammar, Vocabulary and Writing Structures		6657	
Grade 6: Math Preparation		6613	
Grades 6-7: Advanced Middle School Writing Workshop (2 hours)	6604		
Grades 6-7: Algebra Skills Development			
Grades 6-7: Debate and Critical Thinking			
Grades 6-7: Fun with Physics!			
Grades 6-7: Public Speaking		6651	
Grades 6-7: Python Programming - Beginning Level (2 hours)	6589		
Grades 6-7: Python Programming - Intermediate Level (2 hours)			
Grades 6-7: Python Programming for the Raspberry Pi (2 hours)	6595		
Grades 6-8: Astronomy Lab			
Grades 6-8: LEGO Computer Robotics - Mindstorms EV3 (2 hours)	6601		
Grades 6-8: LEGO Computer Robotics - Mindstorms NXT (2 hours)			
Grades 6-9: 3D Design Modelling and Printing		6688	
Grades 6-9: Basketball		6697	
Grades 6-9: Chess Skills and Tournaments			
Grades 6-9: Digital Art and Graphic Design			
Grades 6-9: Digital Comics and Cartooning		6676	
Grades 6-9: Drawing and Painting Studio		6670	
Grades 6-9: Integrated Engineering		6693	
Grades 6-9: JAVA Programming - Beginning Level (2 hours)			
Grades 6-9: JAVA Programming - Intermediate Level (2 hours)	6600		
Grades 6-9: Painting and Printmaking			
Grades 6-9: Product Design and Marketing Using Technology			
Grades 6-9: Sculpture and Ceramics		6682	
Grades 6-9: Spanish - Beginning			
Grade 7: Grammar, Vocabulary and Writing Structures			
Grade 7: Math Preparation		6619	
Grades 7-9: PSAT Math Preparation	6567	6568	
Grades 7-9: PSAT Reading and Writing Preparation	6581	6582	
Grade 8: Grammar, Vocabulary and Writing Structures		6663	
Grade 8: Math Preparation		6624	
Grades 8-9: Advanced High School Writing Workshop (2 hours)	6610		
Grades 8-9: Chemistry Fundamentals		6646	
Grades 8-9: Crafting the High School Essay			
Grades 8-9: Expository Reading and Writing Workshop (2 hours)	6607		
Grades 8-9: Introduction to High School Algebra 1		6629	
Grades 8-9: Introduction to High School Algebra 2 - Foundations for Functions			
Grades 8-9: Introduction to High School Debate Research and Strategies			
Grades 8-9: Introduction to High School Geometry and Spatial Sense		6635	
Grades 8-9: Introduction to High School Probability and Statistics			
Grades 8-9: Physics Lab		6643	
Grades 8-9: Public Speaking			
Grades 8-9: Python Programming - Beginning Level (2 hours)			
Grades 8-9: Python Programming - Intermediate Level (2 hours)	6594		
Grades 8-9: Python Programming for the Raspberry Pi (2 hours)			
Grades 8-9: Trigonometry Functions and Applications			
Grade 9: Introduction to High School Biology Labs and Skills			



June 17-July 12  
**GRADES 6-9**  
 COURSE DESCRIPTIONS

CLASS 3 10:55-11:55 a.m.	CLASS 4 12-1 p.m.	LUNCH BREAK 1-1:45 p.m.	CLASS 5 1:50-2:50 p.m.	CLASS 6 2:55-3:55 p.m.	CLASS 7 4-5 p.m.	FEE
	6658					\$325
6614	6615					\$325
	6605			6606		\$675
			6616	6617	6618	\$325
	6577		6578	6579	6580	\$325
			6640	6641	6642	\$325
	6652					\$325
	6590					\$725
				6591		\$725
	6596					\$725
			6622	6623		\$325
	6602					\$725
				6603		\$725
	6689			6690		\$375
6698	6699					\$325
				6659	6660	\$325
6679			6680		6681	\$375
	6677			6678		\$375
	6671			6672	6673	\$325
6694	6695		6696			\$395
	6598			6599		\$725
						\$725
6674			6675			\$325
6691			6692			\$375
6683	6684		6685	6686	6687	\$375
				6655	6656	\$325
6661			6662			\$325
6620	6621					\$325
6569						\$375
6583						\$375
	6664			6665		\$325
6625	6626					\$325
	6611			6612		\$675
6647	6648					\$325
6666			6667			\$325
	6608			6609		\$675
6630	6631					\$325
	6637		6638	6639		\$325
	6584		6585	6587	6588	\$325
6636						\$325
			6632	6633	6634	\$325
6644	6645					\$325
6653			6654			\$325
	6592			6593		\$725
						\$725
				6597		\$725
			6627	6628		\$325
			6649	6650		\$325

## ART AND DESIGN

### DIGITAL ART AND GRAPHIC DESIGN

**Entering Grades 9-12** – Students in this class will learn to create dynamic digital drawings and illustrations as well as logos, eye-catching web banners and special effects using new design software. Students will use Shape Builder, blending and 3D conversion tools to convert photos into vector images, make animated GIFs and more. Creative and critical thinking exercises will help inspire originality. Students should bring a USB flash drive for saving work. This course is offered in partnership with the Euphrat Museum of Art.

### DIGITAL COMICS AND CARTOONING

**Entering Grades 9-12** – This class will explore the secrets of digital magic, as students learn about creating cartoons and comics in a variety of visual styles including manga and enhanced photo-realism. Students will analyze content and narrative devices such as flashbacks and foreshadowing, and explore the cultural and historical aspects of cartooning. They also will learn to apply key art and design principles that will make their work shine. Students will be provided with a USB flash drive for saving work. This course is offered in partnership with the Euphrat Museum of Art.

### DRAWING AND PAINTING INTENSIVE

**Entering Grades 9-12** – This course will focus on representational and expressive drawing and painting. Students will learn and practice different techniques and work on one or more portfolio pieces, using a variety of media including graphite, oil pastel, acrylic, watercolor and mixed media. Students will be encouraged to find and build their own style and artistic voice. This course is offered in partnership with the Euphrat Museum of Art.



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### INTRODUCTION TO DOCUMENTARY FILMMAKING

**Entering Grades 9-12** – In this hands-on course, students will create their own documentary film as they learn and apply key concepts of media production, including producing, directing, cinematography and sound editing. Students will work in teams as they practice innovative and emerging styles and techniques. This course will take students through the stages of documentary production – including strategy planning, pre-production and filming – and end with a showcase of student work. This course is offered in partnership with the Krause Center for Innovation.

## ATHLETICS

### COMPETITIVE BADMINTON

**Entering Grades 9-12** – This course will train students in the fundamental skills and tactics they need to compete in badminton at the high school level. The emphasis will be on improving footwork and strokes – including net, drop, clear and smash shots – as well as strategic and tactical awareness. This course is taught by Mark Landefeld, three-time Coast Conference Coach of the Year, and members of the two-time state champion De Anza College women’s badminton coaching staff.

### SOFTBALL SKILLS AND DRILLS

**Entering Grades 9-12** – Students in this class will learn the fundamentals of softball while practicing a variety of drills and playing in games. The class will cover throwing, catching and hitting the ball, along with game strategy and the core values of effort, teamwork, self-esteem and respect for others. This course is taught by De Anza College softball team coaches and players.

### SPEED TRAINING

**Entering Grades 9-12** – Students will perform challenging drills to increase their cardiovascular endurance, using quick-burst and change-of-direction drills aimed at improving footwork. The class will cover the techniques and fundamentals to get faster for any sport.

### STRENGTH DEVELOPMENT

**Entering Grades 9-12** – Students will perform strength-development exercises, learn proper weight-training form, develop warm-up routines and gain a basic understanding of how to enrich their physical fitness and athletic performance through weight training.

### VOLLEYBALL SKILLS AND DRILLS

**Entering Grades 9-12** – This class is designed to help students improve their volleyball skills and develop a greater appreciation for this amazing team sport. Students will practice basic moves and learn about game strategy while engaging in drills and matches. This course is taught by De Anza College volleyball team coaches and players.



## COMPUTER PROGRAMMING, ENGINEERING AND ROBOTICS

### JAVA PROGRAMMING – BEGINNING LEVEL

**Entering Grades 9-12** – This course is an introduction to computer programming with the Java language, using object-oriented programming principles. Students will learn about Java primitive and non-primitive data types, control flow constructs, built-in class libraries and object-oriented programming concepts such as classes, objects, method overloading and encapsulation. Typical assignments will cover built-in and programmer-defined classes, basic input and output operations, and solving programming problems.

### JAVA PROGRAMMING – INTERMEDIATE LEVEL

**Entering Grades 9-12** – This class is for students who have basic Java programming skills and want to start building real-world applications. Java provides a vast set of tools that can be used for games and websites. This class will include object-oriented programming and some of the advanced tools that are commonly used on Java development projects – including inheritance and abstraction, interfaces, nested classes, regular expressions, collections, dates and I/O.



**MANUFACTURING PROCESSES AND DESIGN LAB**  
**– BUILD YOUR OWN PARTS! (3 hours)**

**Entering Grades 9-12** – This course will give students real-world experience in modern industrial design and production, while introducing them to the key processes of design, manufacturing, programming and fabrication. Students will participate in demonstrations and hands-on projects that involve measurement tools, blueprint reading, computer numerical control (CNC) machine set-up and processes, CNC machine programming (lathe and mill), CAD/CAM and more. This course is offered in partnership with the De Anza College Design and Manufacturing Technologies Department.

**PRODUCT DESIGN AND DEVELOPMENT USING DESIGN THINKING**

**Entering Grades 9-12** – This course will tap into students' creativity and provide an environment for them to develop their own projects. Design thinking is a process that starts with an idea, then defines and refines it into a product with depth and meaning. It's also a way for turning daydreams into tangible reality. Students in this class will use principles from Stanford's design school (known as the "d.school") to foster their creativity and perseverance while conceptualizing, prototyping and eliciting feedback. This course is offered in partnership with the Krause Center for Innovation.

**PYTHON PROGRAMMING – BEGINNING LEVEL**

**Entering Grades 9-12** – This course introduces students to basic elements of the Python programming language, including data types, control structures, algorithm development and program design with functions. Students will define new object classes, create interactive applications with buttons, learn about animation and build an interactive game using Python. The instructor will also cover fundamental principles of object-oriented programming, as well as data- and information-processing techniques.



**PYTHON**  
**BOOTCAMP**  
 ONE-WEEK  
 SPECIALTY CAMP  
**JULY 8-12**  
 SEE INSIDE  
 BACK COVER

**PYTHON PROGRAMMING – INTERMEDIATE LEVEL**

**Entering Grades 9-12** – This course will help students strengthen their skills and build on what they have learned in previous introductory programming classes. Through practical examples, students will gain a deeper understanding of Python programming and how it can be applied in the real world. Projects will reinforce understanding of fundamentals while encouraging experimentation and exploration. Students will learn about building a platform and applications using Python installation, variables, operators, strings, lists, tuples and maps, Turtle, drawing, conditional statements, loops, functions, objects and classes.

**PYTHON PROGRAMMING FOR THE RASPBERRY PI**

**Entering Grades 9-12** – The course builds on basic programming skills, giving students the opportunity to apply programming knowledge to the Raspberry Pi and peripherals as they mimic and debug real-world Python applications. Class sessions include time to work on programs with help from the instructor. The course fee includes the Raspberry Pi and associated components, including sensors and servos. Students will keep the Raspberry Pi that they use in class.

## MATHEMATICS

### INTRODUCTION TO HIGH SCHOOL ALGEBRA 1 ★

**Entering Grades 9-10** – This class will introduce students to major themes and concepts in first-year algebra. Students will engage in hands-on applications and problem-solving exercises designed to promote conceptual understanding and enhance logical thinking skills. Topics covered will include properties in algebra, polynomials, solving and applying equations, factoring, the quadratic formula, solving and graphing linear and variable equations, radical expressions and other subjects as time permits.

### INTRODUCTION TO HIGH SCHOOL ALGEBRA 2 ★

**Entering Grades 9-12** – This course emphasizes critical thinking, understanding of real-world applications and the use of advanced problem-solving techniques. Students will gain an understanding of functions by using a graphical approach to contextualizing relationships, including linear, quadratic, absolute value, exponential and polynomial rational expressions. Students will learn how to define every relation as a transformation and translation of a parent function. Students should bring a pencil, eraser, small ruler, graph paper and TI-84 calculator (or equivalent) daily.



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### INTRODUCTION TO HIGH SCHOOL CALCULUS CONCEPTS

**Entering Grades 9-12** – This course will introduce students to limits, derivatives, differentiation and integration. Students will receive guided exposure to concepts of calculus so they are better prepared for calculus courses during the academic year. Students will improve their understanding of equations, graphs and proofs, including the study of vectors and polar coordinates, advanced inequalities and series. Students will transition from advanced applications of key precalculus concepts to more traditional calculus problems. Students will study and apply a combination of graphical, numerical and symbolic representations as they gain familiarity with each of the key calculus concepts throughout the course. Students should bring a pencil, eraser, small ruler, graph paper and TI-84 (or equivalent) calculator daily.

### INTRODUCTION TO HIGH SCHOOL GEOMETRY ★

**Entering Grades 9-12** – This course will introduce students to Euclidean geometry and assist them in understanding two- and three-dimensional space. Students will develop important basic geometry skills and explore various proofs through logical deduction. The course will include hands-on explorations of geometric transformations, similar and congruent polygons, area and volume of solids, 2D and 3D polygons and polyhedra as well as the Pythagorean theorem.

### INTRODUCTION TO HIGH SCHOOL TRIGONOMETRY ★

**Entering Grades 9-12** – Students will learn how to convert to radians, find arc and sector lengths, and study the six preliminary trigonometric functions. Students will use the terminal ray of an angle in standard position, graph the functions and use the unit circle. Students should bring a pencil, eraser, small ruler, graph paper and TI-84 (or equivalent) calculator daily.

★ *Meets Common Core standards*

## SCIENCE

### ESSENTIAL HIGH SCHOOL CHEMISTRY PRINCIPLES

**Entering Grades 9-12** – This course is designed to preview some of the main topics in high school chemistry. Students will learn about dimensional analysis, the periodic table, stoichiometry and gas laws. The class will investigate the structures and properties of matter, chemical reactions and the energy and forces that drive these interactions. Students will be expected to use algebra to explain these ideas. Students will be challenged to solve problems and answer complex questions in pairs and group work. This is not a lab class, but students will complete activities and projects such as building their own periodic table and creating molecule models to promote understanding and retention.

### ESSENTIAL HIGH SCHOOL PHYSICS PRINCIPLES

**Entering Grades 10-12** – This course will help students prepare for high school physics. The instructor will emphasize conceptual understanding in describing natural phenomena, while introducing the use of

mathematical reasoning in the central concepts of physics. The class will cover basic mechanics, including the properties of matter, motion, forces and energy. Students will examine basic physical laws as they apply to everyday physical phenomena. Students will use verbal logic, critical thinking and some mathematics in this course.

### PLANETARIUM ASTRONOMY

**Entering Grades 9-12** – This introductory astronomy course will introduce the physical principles, logic and development of stellar astronomy from ancient times to the present, with emphasis on recent developments. Students will examine the relationship of earth to its deep-space environment and contrast the sun with other types of stars. The class will also cover earth and sky relationships, explore the solar system and study theories of its origin as well as properties of other stars' planetary systems. This course is held in the De Anza College Planetarium, giving students access to state-of-the-art equipment and unique learning tools.



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## SOCIAL SCIENCES

### UNDERSTANDING CIVIL LIBERTIES

**Entering Grades 9-12** – What are your rights under the U.S. Constitution? Where do they come from and how has our understanding of them evolved over time? Students will confront these questions with the help of guest speakers from academia and civil liberties groups. This course will also provide hands-on experience as students conduct research using the center’s library and archives. Students will improve critical thinking, public speaking, familiarity with writing and research methods and collaborative work skills. They will also be introduced to the field of museum studies. This course is offered in partnership with the Audrey Edna Butcher Civil Liberties Education Initiative of the California History Center at De Anza College.

### NATURAL DISASTERS IN CALIFORNIA HISTORY

**Entering Grades 9-12** – What can we learn from the natural disasters that have shaped our lives in California? Students in this class will discuss historic lessons that suggest how we can better prepare for the future. Using primary sources from the center’s library and archives, students will examine which human actions succeeded – or failed – and how we might incorporate useful models into preparation and response planning. With help from guest speakers

and college staff members, students will improve their critical thinking, public speaking and collaborative work skills, while increasing their familiarity with writing and research methods. Students will also be introduced to the field of museum studies. This course is offered in partnership with the Stockmeir Library and Archives of the California History Center at De Anza College.

## TEST PREPARATION

### SAT – MATHEMATICS (3 hours)

**Entering Grades 9-12** – This course will guide students in developing a personalized plan for SAT preparation and provide extensive practice opportunities for both the multiple choice and “grid-in” Mathematics sections of the SAT. Students will study the essential facets of arithmetic, algebra, geometry, data analysis and logic that directly affect SAT performance. Students will engage in extensive practice and work cooperatively to solve sample test problems. Students will also develop an extended practice plan to continue SAT preparation after the course. They will use class time to focus on question structures and topics, including linear equations and systems in algebraic expressions, data analysis and quantitative literacy, and fluency with complex equations.

### SAT – WRITING AND LANGUAGE, READING AND ESSAY (3 hours)

**Entering Grades 9-12** – This course will guide students in developing a personalized plan for SAT preparation and provide extensive practice opportunities for the Writing and Language, Reading and Essay sections of the SAT. Students will learn and practice strategies for all types of questions they will encounter on these sections. Students will also implement a plan for vocabulary enhancement and use class time to focus on skills development, including improving their evidence-based interpretations, applying context in analysis, and understanding organization and structure for sentences, passages and essays.



## WRITING, READING AND VOCABULARY

### CREATIVE WRITING WORKSHOP

**Entering Grades 9-12** – This class provides an opportunity for students to explore their creative and imaginative potential, and to define their individual goals as writers. In a workshop atmosphere, students will explore a variety of literary forms, including short stories, poetry, drama, nonfiction and journal writing. The course combines short, spontaneous exercises and longer take-home assignments to improve voice, character development and narrative pacing, and to help students master common literary conventions in contemporary fiction and poetry. Peer evaluations and public readings will also help students understand criticism and how to incorporate criticism as they revise their writing.

### EXPOSITORY READING AND WRITING

**Entering Grades 9-12** – Expository reading and writing skills will help students excel on the reading and writing portions of standardized tests, while also developing lifelong literacy and college readiness. In this course, students will learn to read critically, make predictions about texts, analyze content and rhetorical structures, and properly use materials from texts to support their own written arguments. Readings will be enhanced through expository writing, most often through timed essays. Students will learn to organize ideas and construct persuasive arguments that advance their own ideas with a developed voice.

### INTRODUCTION TO BASIC HIGH SCHOOL WRITING STRUCTURES

**Entering Grades 9-10** – This course will teach students to engage in writing as a process, with particular attention to diction, argumentation and thoughtful integration of evidence. Students will learn to craft a basic, five-paragraph essay – emphasizing structure, clarity and argument – in response to informational texts and fictional short stories. Students will also learn to recognize and correct grammatical errors involving subject-verb agreement, verb form, verb tense, pronouns, modifiers, fragments, run-ons and basic punctuation. This highly interactive class includes peer review, drafting and workshops.

### PERSUASIVE WRITING AND THE FUNDAMENTALS OF ARGUMENT

**Entering Grades 9-12** – This course emphasizes rhetorical study and evidence-based analytics and argumentation in clear and efficient writing. Students will analyze and discuss literary, historical and expository texts, while learning about the creation of a clear and arguable thesis, interesting introductions and conclusions, thoughtful outlining and correct mechanics. Students will also practice writing persuasive essays that employ rhetorical strategies and sound principles of argument. The course is designed to help students develop the depth and scope of their writing, while improving their research skills.

## DE ANZA COLLEGE

COURSE DESCRIPTIONS	CLASS 1 8-9:20 a.m.	CLASS 2 9:30-10:50 a.m.	CLASS 3 11 a.m.-12:20 p.m.	CLASS 4 1-2:20 p.m.	CLASS 5 2:30-3:50 p.m.	CLASS 6 4-5:20 p.m.	FEE
Grades 9-10: Introduction to Basic High School Writing Structures			6544	6545			\$395
Grades 9-10: Introduction to High School Algebra 1					6550	6552	\$395
Competitive Badminton					6708		\$395
Creative Writing Workshop						6542	\$395
Digital Art and Graphic Design		6574					\$395
Digital Comics and Cartooning			6575				\$395
Drawing and Painting Intensive				6576			\$395
Essential High School Chemistry Principles			6555	6556			\$395
Essential High School Physics Principles					6557	6559	\$395
Expository Reading and Writing					6501	6502	\$395
Introduction to Documentary Film Making	6700	6701					\$395
Introduction to High School Algebra 2	6532	6534	6535				\$395
Introduction to High School Calculus Concepts	6512	6513	6515	6516			\$395
Introduction to High School Geometry				6536	6539	6540	\$395
Introduction to High School Trigonometry					6518	6520	\$395
JAVA Programming - Beginning Level	6495		6496				\$425
JAVA Programming - Intermediate Level		6498		6500			\$425
Manufacturing Processes and Design Lab - Build your Own Parts!		6566					\$795
Natural Disasters in California History			6572				\$395
Persuasive Writing and the Fundamentals of Argument	6546	6547					\$395
Planetarium Astronomy		6565					\$395
Product Design and Development Using Design Thinking		6702	6703	6704	6705		\$395
Python Programming - Beginning Level		6504		6506			\$425
Python Programming - Intermediate Level	6507		6509				\$425
Python Programming for Raspberry Pi					6510	6511	\$425
SAT - Mathematics		6522		6524		6525	\$695
SAT - Writing and Language, Reading and Essay		6527		6529		6530	\$695
Softball Skills and Drills				6706			\$395
Speed Training				6710			\$395
Strength Development			6709				\$395
Understanding Civil Liberties				6570	6571		\$395
Volleyball Skills and Drills				6707			\$395



# REGISTER ONLINE

**Grades 1-9: Register Feb. 20-June 10 | Grades 9-12: Register Feb. 20-July 8**

**One-week camp registration closes at 11:59 p.m. on July 7, 2019.**

Visit [deanza.edu/academy](http://deanza.edu/academy) to review program details and check class availability at each location.

When you're ready to enroll, follow the easy steps listed online to register. All student class registrations require a parent or guardian to complete the emergency medical release and information form before completing the registration.

Once payment is successfully processed, you will receive a class confirmation by email.

## QUESTIONS?

We're happy to help!

408.864.8817

communityeducation@  
deanza.edu

### When selecting classes for your child:

Students should enroll at the grade level they will enter in fall 2019. For example, if your student is completing fifth grade in June 2019, she or he should enroll in sixth-grade level classes.

Grades 1-9: If you want your student to remain on the school site for more than one class period, you should enroll her or him in classes that are held consecutively. Students should be picked up immediately after their last class of the day.

Grades 9-12 (classes at De Anza College campus): Students may select classes in any combination. Please be advised that students will be supervised during class time only.

Students may register for one to seven classes per day, and may also register for our one-week specialty camp.

## DAILY SCHEDULE

### ST. JOSEPH OF CUPERTINO SCHOOL

#### Grades 1-5

**Class 1:** 8:10-9:10 a.m.

**Class 2:** 9:15-10:15 a.m.

**Break:** 10:15-10:25 a.m.

**Class 3:** 10:30-11:30 a.m.

**Class 4:** 11:35-12:35 a.m.

**Lunch Break:** 12:35-1 p.m.

**After-School Option:** 1:05 p.m.-3 p.m.

### CUPERTINO MIDDLE SCHOOL

#### Grades 6-9

**Class 1:** 8:30-9:30 a.m.

**Class 2:** 9:35-10:35 a.m.

**Break:** 10:35-10:50 a.m.

**Class 3:** 10:55-11:55 a.m.

**Class 4:** noon-1 p.m.

**Lunch Break:** 1-1:45 p.m.

**Class 5:** 1:50-2:50 p.m.

**Class 6:** 2:55-3:55 p.m.

**Class 7:** 4-5 p.m.

### DE ANZA COLLEGE

#### Grades 9-12

**Class 1:** 8-9:20 a.m.

**Class 2:** 9:30-10:50 a.m.

**Class 3:** 11 a.m.-12:20 p.m.

**Class 4:** 1-2:20 p.m.

**Class 5:** 2:30-3:50 p.m.

**Class 6:** 4-5:20 p.m.

*No classes will be on held July 4 and July 5*

### ADD A NEW CLASS

All class registrations require a parent or guardian to complete the emergency medical release and information form before completing the registration.

#### GRADES 1-9

- **Through June 10:** Add classes online or in person at the De Anza College Community Education office.
- **June 11-16:** Registration will be closed for adding classes until June 17.
- **June 17-19:** Add available classes in person at your registered school site only.

#### GRADES 9-12 (classes at De Anza campus)

- **Through July 8:** Add classes online or in person at the De Anza College Community Education office.
- **July 9-14:** Registration will be closed for adding classes until July 15.
- **July 15-17:** Add available classes in person at the De Anza College Community Education office only.

#### ONE-WEEK CAMP

##### (beginning July 8)

- Add camp online or in person at the De Anza College Community Education office before the camp's start date.
- During the first day of camp, you may register in person at the De Anza College Community Education office if space is available.

### CHANGE A CLASS

Class change requests will be processed on a first-come, first-served basis, depending on class availability. Class change requests must be emailed to [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu) by the dates listed below. In-person requests accepted June 17-19 for grades 1-9, or July 15-17 for grades 9-12 (classes at De Anza campus), at your registered school site.

#### GRADES 1-9

- **Before April 1:** No fee for course change requests
- **April 1-May 1:** 5% fee for course change requests
- **May 2-June 10:** 10% fee for course change requests
- **June 11-16:** Registration will be closed for changing classes until June 17.
- **June 17-19:** Change classes in person at registered school site; 10% fee for course change requests.

#### GRADES 9-12 (classes at De Anza campus)

- **Before April 1:** No fee for course change requests
- **April 1-June 1:** 5% fee for course change requests
- **June 2-July 8:** 10% fee for course change requests
- **July 9-14:** Registration will be closed for changing classes until July 15.
- **July 15-17:** Change classes in person at the De Anza College Community Education office only; 10% fee for course change requests.

**DROP CLASSES FOR A REFUND:** All class drops and refund requests must be submitted by email to [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu). Disruptive and inappropriate student behavior will result in dismissal from the program without a refund.

#### GRADES 1-9

- **Before April 1:** 10% fee per dropped class
- **April 1-May 17:** 25% fee per dropped class
- **May 18-June 10:** Drop and refund requests will be considered for a 50% refund, on an individual basis, by the dean of Community Education. Exception: For courses added after the refund deadline has passed, refund requests made within 48 hours of registration will be honored for a 25% fee per dropped class.
- **After June 10:** No refunds will be issued.

#### GRADES 9-12 (classes at De Anza campus)

- **Before May 2:** 10% fee per dropped class
- **May 2-June 15:** 25% fee per dropped class
- **June 16-July 8:** Drop and refund requests will be considered for a 50% refund, on an individual basis, by the dean of Community Education. Materials fees and lab fees are nonrefundable. Exception: For courses added after the refund deadline has passed, refund requests made within 48 hours of registration will be honored for a 25% fee per dropped class.
- **After July 8:** No refunds will be issued.

#### ONE-WEEK CAMP (beginning July 8)

- **Ten or more business days before the start of the camp:** A \$150 fee will be retained per dropped camp.
- **Nine or fewer business days before the start of the camp:** Drop and refund requests will be considered for a 50% refund, on an individual basis, by the dean of Community Education. Materials fees and lab fees are nonrefundable.

## Classroom Assignments

You will be notified by email of room assignments for each of your child's classes a few days before the start of the program.

Room listings and site maps may also be found online the week before the start of the program. They will be posted at each school site on the first day of classes.

## Student Conduct, Supervision and Breaks

Students must observe all school rules while on campus. Failure to follow rules may result in removal from the program.

In grades 1-9, students will be supervised during morning and lunch breaks; however, there is no supervision for students before or after the program. Please send a snack with your student each day for morning and lunch breaks, as food service is only available at Cupertino Middle School. Any parents coming to campus **MUST** check in at the administration office. Parents may not wait for their child outside the classroom.

In grades 9-12 on the De Anza College campus, students will be supervised during class time only. Parents may not attend class with their students. Parking permits are required outside of drop-off zones and can be purchased daily for \$3 or quarterly from the college Police Department. No food service is available on Fridays.

## Review Your Class Confirmations

To ensure your child is in the correct class and school site, please review the confirmation and transaction receipts that will be emailed to you at the time of enrollment. You may also log in to the registration system with your chosen username and password at any time.

## Reporting Student Absences

Beginning June 17, please email [attendance@deanza.edu](mailto:attendance@deanza.edu) to notify us when your student is absent.

*Courses, class schedules and locations may be subject to change. We regret any discrepancies or typographical errors. Please be advised that the most current information will be available at [deanza.edu/academy](http://deanza.edu/academy).*

## Thank You to Our Program Partners



CALIFORNIA HISTORY  
CENTER



EUPHRAT MUSEUM OF ART



De Anza College  
**PLANETARIUM**



CUPERTINO UNION  
SCHOOL DISTRICT



**KRAUSE CENTER**  
for INNOVATION  
FOOTHILL COLLEGE





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DEANZA.EDU

**1. St. Joseph of  
Cupertino School**  
10120 N. De Anza Blvd.  
Cupertino, CA 95014  
**Grades 1-5**

**2. Cupertino Middle School**  
1650 S. Bernardo Ave.  
Sunnyvale, CA 94087  
**Grades 6-9**

**3. De Anza College**  
21250 Stevens Creek Blvd.  
Cupertino, CA 95014  
**Grades 9-12 and  
One-Week Specialty  
Camp for Grades 7-12**



De Anza College

# PLANETARIUM

ASTRONOMY AND LASER LIGHT SHOWS

**Admission: \$9 for Astronomy and Laser Shows; \$10 for Special Live Events**

**Visit [deanza.edu/planetarium](http://deanza.edu/planetarium) to read show descriptions and purchase tickets**

## MARCH

### SATURDAY, MARCH 2

- 3:30 p.m. – Magic Tree House
- 5 p.m. – Magic Tree House
- 7 p.m. – Phantom of the Universe
- 8:15 p.m. – Laser Pink Floyd:  
The Dark Side of the Moon
- 9:15 p.m. – Laser Led Zeppelin

### SATURDAY, MARCH 9

- 3:30 p.m. – This is Our Sky!
- 5 p.m. – We Are Stars
- 7 p.m. – Saturn: Jewel of the Heavens
- 8:15 p.m. – Laser EDM: Electronic Dance Music
- 9:15 p.m. – Laser Michael Jackson

### SATURDAY, MARCH 16

- 3:30 p.m. – The Secret of the Cardboard Rocket
- 5 p.m. – Cosmic Journey
- 7 p.m. – Black Hole: The Other Side of Infinity
- 8:15 p.m. – Laser Beatles:  
Sgt. Pepper's Lonely Hearts Club Band
- 9:15 p.m. – Laser Pink Floyd:  
Welcome to the Machine

### SATURDAY, MARCH 23

- 3:30 p.m. – The Moon
- 5 p.m. – Magic Tree House
- 7 p.m. – Extreme Planets
- 8:15 p.m. – Laser Daft Punk
- 9:15 p.m. – Laser Beyoncé\*

### SATURDAY, MARCH 30

- 3:30 p.m. – The Little Star that Could
- 5 p.m. – Explore Live! Discover the Beautiful Night Sky (with *Toshi Komatsu, Planetarium Director*)\*\*
- 7 p.m. – J-Walt Lucid Dreamscapes\*\*
- 8:15 p.m. – Laser Michael Jackson
- 9:15 p.m. – Laser Pink Floyd:  
The Dark Side of the Moon

## APRIL

### FRIDAY, APRIL 5

- 6 p.m. – Finding Your Way Through  
the Night Sky\*\*\*  
(instructor TBD)

### SATURDAY, APRIL 6

- 3:30 p.m. – This is Our Sky!
- 5 p.m. – The Sun Our Living Star\*
- 7 p.m. – Explore Live! Dark Skies Worldwide  
(with *Mike Askins, Planetarium Specialist*)\*\*
- 8:15 p.m. – Explore Live! Secrets of the Digital Sky  
(with *Mariah Panely, Planetarium Presenter*)\*\*
- 9:15 p.m. – Laser Pink Floyd: The Vision Bell\*

### FRIDAY, APRIL 12

- 6 p.m. – Finding Your Way Through  
the Night Sky\*\*\*  
(instructor TBD)

### SATURDAY, APRIL 13

- 3:30 p.m. – Magic Tree House
- 5 p.m. – Phantom of the Universe
- 7 p.m. – Explore Live! Constellations and Culture  
(with *Mike Askins, Planetarium Specialist*)\*\*
- 8:15 p.m. – Laser EDM: Electronic Dance Music  
(free admission for students and staff)
- 9:15 p.m. – Laser Daft Punk  
(free admission for students and staff)

### SATURDAY, APRIL 20 - CLOSED

### SATURDAY, APRIL 27

- 3:30 p.m. – The Secret of the Cardboard Rocket
- 5 p.m. – Explore Live!  
Flight to the Edge of the Universe  
(with *Toshi Komatsu, Planetarium Director*)\*\*
- 7 p.m. – J-Walt Lucid Dreamscapes\*\*
- 8:15 p.m. – Laser Beyoncé\*
- 9:15 p.m. – Laser Green Day

## MAY

### SATURDAY, MAY 4

- 3:30 p.m. – Magic Tree House
- 5 p.m. – Magic Tree House
- 7 p.m. – Extreme Planets
- 8:15 p.m. – Laser Daft Punk
- 9:15 p.m. – Laser Queen

### SATURDAY, MAY 11

- 3:30 p.m. – The Moon
- 5 p.m. – Earth, Moon and Sun
- 7 p.m. – Totality
- 8:15 p.m. – Laser Stranger Things
- 9:15 p.m. – Laser Bob Marley\*

### SATURDAY, MAY 18

- 3:30 p.m. – Magic Tree House
- 5 p.m. – Magic Tree House
- 7 p.m. – Black Hole: The Other Side of Infinity
- 8:15 p.m. – Laser Michael Jackson
- 9:15 p.m. – Laser Pink Floyd:  
The Dark Side of the Moon



[deanza.edu/planetarium](http://deanza.edu/planetarium)  
408.864.8814



FIND US ON  
**FACEBOOK**  
[deanzaplanetarium](https://www.facebook.com/deanzaplanetarium)

\* New show

\*\*Special live event – Must be age 8 or older

\*\*\*Two-part course; see [deanza.edu/shortcourses](http://deanza.edu/shortcourses)

# PYTHON BOOTCAMP

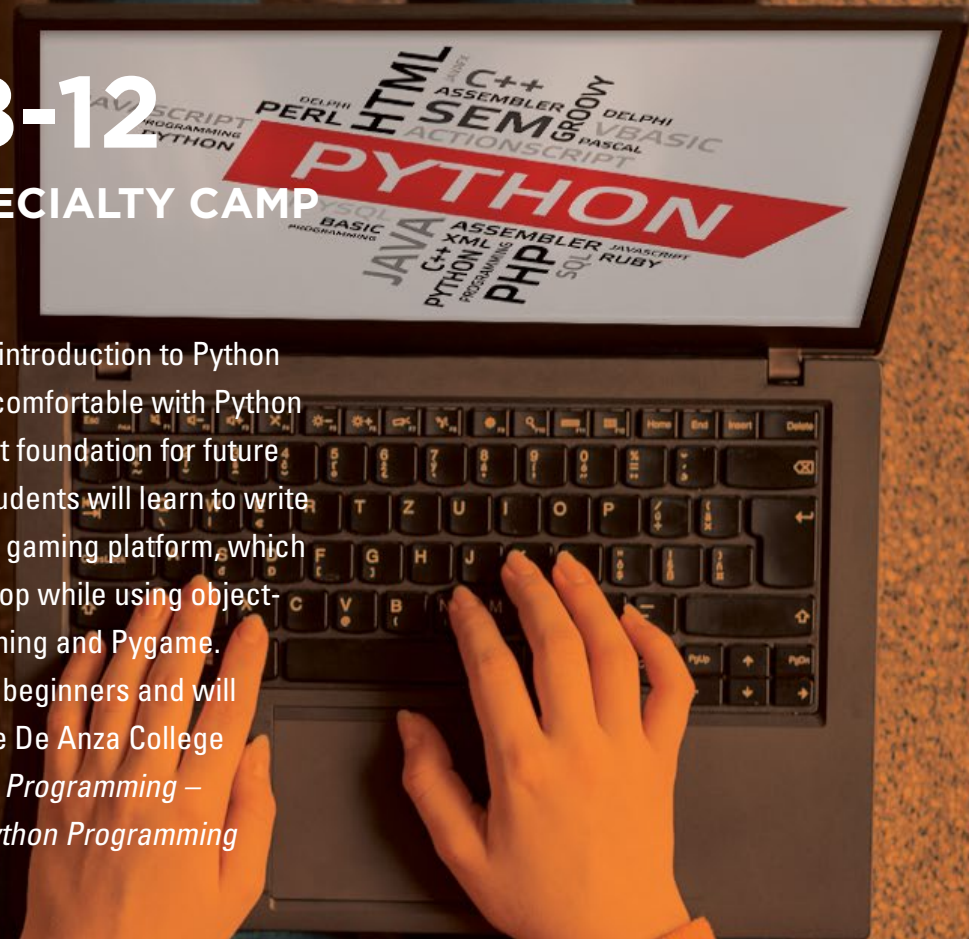
**JULY 8-12**  
**ONE-WEEK SPECIALTY CAMP**

## Entering Grades 7-12

This camp is a beginner's introduction to Python programming. Becoming comfortable with Python at an early age is a perfect foundation for future programming success. Students will learn to write Python code for their own gaming platform, which they will design and develop while using object-oriented Python programming and Pygame. This camp is designed for beginners and will prepare students for these De Anza College Academy classes: *Python Programming – Intermediate Level* and *Python Programming for Raspberry Pi*.

## Topics include:

- Syntax – including variables, nested conditionals, defining new object classes and structure.
- Functions
- Implementation of graphics, animation and music
- Application of Python language and associated principles for gaming platforms and design







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RESIDENTIAL CUSTOMER

# DeAnza College **ACADEMY**

SUMMER YOUTH ENRICHMENT PROGRAM FOR GRADES 1-12

## Now in our 34<sup>th</sup> Year

**NEW!** Extended hours for Grades 1-5

**NEW!** All-day program available for Grades 6-12

### CLASSES FOR GRADES 9-12 HELD AT DE ANZA COLLEGE!



Grades 1-12 classes include

**Art and Design, Mathematics, Science, Robotics,  
Programming, Physical Education, Writing, Speaking,  
Test Preparation and more!**

Find us on Facebook: [deanzacollegeacademy](https://www.facebook.com/deanzacollegeacademy)

# [deanza.edu/academy](https://deanza.edu/academy)