



# COMMUNITY EDUCATION

De Anza College Academy • Planetarium • Short Courses

New short courses include  
Einstein's Relativity for  
Everyone, Business Chinese,  
Archaeoastronomy  
and more!



**REGISTER  
NOW!**  
Classes start  
Jan. 7

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De Anza College

## SHORT COURSES

### Arts and Music

#### SILK EMBROIDERY PAINTING (428\*)

This class brings modern creativity to an ancient art form. Unique and stunning designs can be embroidered on wall panels, clothing and other media. Students will learn to use shading to illustrate dimension; split stitches; long and short stitches with a single strand of cotton; and silk thread on silk fabric, crepe and other fabrics.

During the first class, students will view a demonstration, review previous projects and discuss supplies. Students will then choose a project to participate in through the course.

**Instructor:** Azita Farshin grew up with a family of art and design instructors. She has taught embroidery for more than 10 years and has shown several art exhibitions in Asia.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$185

**Materials fee:** \$40-80 (payable to instructor), depending on the choice of project

**Dates and times:** Feb. 23, Mar. 2, 9, 16, 23 and 30, Apr. 6 and 13 (eight Saturdays), 12:30-2:30 p.m.

#### YOU CAN PLAY GUITAR! (370\*)

Learn the basics of playing the guitar, including right- and left-hand technique, strumming chords and playing melodies. Instructor Rich Hawthorne will teach you how to play simple blues, rock and folk songs. This is an absolute beginner's course, with no experience necessary. This course is also recommended for students who have some playing skills but no formal instruction.

**Instructor:** Rich Hawthorne has been a Bay Area guitar instructor for over 20 years. He is the co-author of "I've Always Wanted to Play Guitar."

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered. Each student will need an electric or acoustic guitar. Guitars can be rented from the instructor for \$35. To rent a guitar, please contact the instructor at least one week before class starts, at [rhguitarist@sbcglobal.net](mailto:rhguitarist@sbcglobal.net).

**Cost:** \$109

**Materials fee:** \$15 (payable to instructor)

**Dates and times:** Jan. 19 and 26, Feb. 2, 9, 16 and 23 (six Saturdays), 4:35-5:35 p.m.



#### YOU CAN PLAY UKULELE! (390\*)

The popularity of the ukulele has grown tremendously over the years. Since it is an easy instrument to learn, it can be quickly rewarding. Even if you have no musical background, this class will provide the tools and guidance to start playing with relative ease. During the course, students will learn how to hold and tune a ukulele, along with basic chords and melodies, fingerings, rhythm and tempo, basic reading and music theory. This six-week course is designed with the beginner in mind.

**Instructor:** Rich Hawthorne has been a Bay Area guitar instructor for more than 20 years. He is the co-author of "I've Always Wanted to Play Guitar."

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered. Each student will need a ukulele. Ukeleles can be purchased from the instructor for \$80-\$120. To purchase, please contact the instructor at least one week before class starts, at [rhguitarist@sbcglobal.net](mailto:rhguitarist@sbcglobal.net).

**Cost:** \$109

**Materials fee:** \$15 (payable to instructor)

**Dates and times:** Jan. 19 and 26, Feb. 2, 9, 16 and 23 (six Saturdays), 3:30-4:30 p.m.

### Astronomy and Science

#### ARCHAEOASTRONOMY: ASTRONOMY OF THE ANCIENT WORLD (482\*)

This course will explore the systems of astronomy developed by ancient cultures of the Americas, Europe, the Mediterranean region and the Near East. Students will learn how ancient Mesopotamian societies predicted eclipses and how the ancient Mayans tracked the movement of Venus across the night sky. The class will also examine how ancient Islamic science gave rise to our modern constellation systems, how structures such as Stonehenge were developed to measure time, and how ancient Polynesian societies relied upon astronomy to navigate the Pacific Ocean.

**Instructor:** Tim King is an anthropologist and

archaeologist with a wide range of research interests, including ancient Mesoamerican archaeology; ancient astronomy, sciences and writing systems; the anthropology of technology; and the mammoths of the ice age.

**Cost:** \$84

**Dates and times:** Feb. 26, March 5, 12 and 19 (four Tuesdays), 6-8 p.m.

#### ASTRONOMY FOR EVERYONE (453\*)

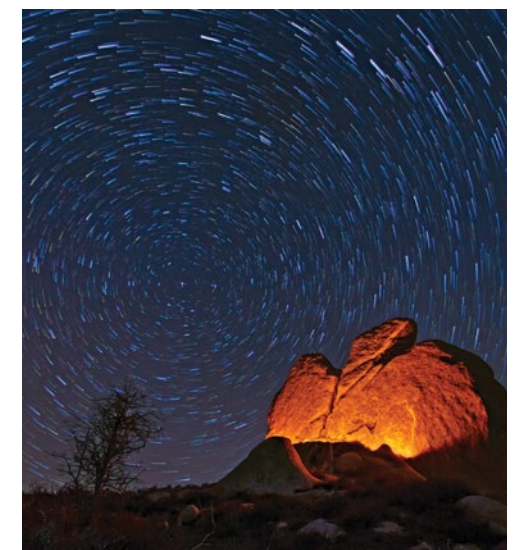
This is a three-hour, nontechnical class for students interested in learning more about what they see in the night sky. The instructor will discuss history and modern astronomy, including how students can practice backyard astronomy with the naked eye, binoculars and telescopes. Topics will include the size of the known universe, constellations and how seasons occur. The class will also cover phases of the moon, tides, solar and lunar eclipses and the life cycle of the sun.

**Instructor:** Awanish Mishra holds a bachelor's degree in chemistry with a minor in quantum physics, along with a master's degree in theoretical chemistry.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$54

**Dates and times:** Choose either  
Session 1: Jan. 17 (Thursday), 6-9 p.m.  
or  
Session 2: May 16 (Thursday), 6-9 p.m.







## ASTROPHYSICS FOR EVERYONE (375\*)

Are you curious about the universe? This is the class for you! This nontechnical class explores the roles of matter and energy in the underlying structure of the universe and how clouds of gases and dust give rise to stars, planets and solar systems. Close attention will be paid to the sun's power and its life cycle. Additional topics include the Big Bang theory, gravity, exoplanets, galaxies, black holes, supernovae, dark matter and energy. The class will conclude with current theories about the multiverse and the "Theory of Everything."

**Instructor:** Awanish Mishra holds a bachelor's degree in chemistry with a minor in quantum physics, along with a master's degree in theoretical chemistry.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$84

**Dates and times:** Choose either  
Session 1: Feb. 21 and 28 (two Thursdays), 6-9 p.m.  
or  
Session 2: June 6 and 13 (two Thursdays), 6-9 p.m.



## EINSTEIN'S THEORY OF RELATIVITY FOR EVERYONE (486\*)

Einstein's theories of special and general relativity have stood the test of time for more than 100 years. This class will examine their development and meaning, and the differences between them. Students will review the ways in which popular media address relativity and such topics as time dilation, length contraction and the speed of light. Although these concepts are complex, relativity is an exciting and elegant subject that can be explained in a nontechnical way.

**Instructor:** Awanish Mishra holds a bachelor's degree in chemistry with a minor in quantum physics, along with a master's degree in theoretical chemistry.

**Class requirements:** Must be age 16 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$54

**Date and time:** April 17 (Wednesday), 6-9 p.m.

## FINDING YOUR WAY THROUGH THE NIGHT SKY (377\*)

Learn to locate constellations and identify bright stars and planets. Understand the changes in the moon, the motions of the sky and the seasonal changes in the visibility of heavenly bodies. In this class, you will get a feel for the enormous distances to the objects you can see in the night sky. This very popular, nontechnical astronomy course is designed for any community member interested in the local sky. It will be held in the De Anza College Planetarium.

**Instructor:** TBD

**Class requirements:** Must be age 12 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$59

**Materials fee:** \$3 (payable to instructor)

**Dates and times:** April 5 and 12 (two Fridays), 6-9 p.m.

## MAMMOTHS: THE LORDS OF THE ICE AGE (483\*)

This class will introduce students to the woolly mammoths of the last ice age and their warm-climate cousins, including a Columbian mammoth discovered in Castroville, California. Students will learn about human interaction with mammoths, and consider the potential for resurrecting these amazing creatures through cloning. The instructor was one of the first two Western researchers to examine the most intact frozen woolly mammoth ever found, 300 miles above the Arctic Circle in Siberia.

**Instructor:** Tim King is an anthropologist and archaeologist with a wide range of research interests, including ancient Mesoamerican archaeology; ancient astronomy, sciences and writing systems; the anthropology of technology; and the mammoths of the ice age.

**Cost:** \$45

**Dates and times:** Jan. 22 (Tuesday), 6-9 p.m.



Above: Instructor Tim King holding the tusks of the Lyakhovskiy Mammoth, discovered in Siberia.

Right: The most intact mammoth ever found is believed to have died while trapped in mud, as portrayed by renowned paleontology artist Joshua Balize.

## QUANTUM MECHANICS FOR EVERYONE (440\*)

Quantum mechanics is a branch of physics that explains how things work. It provides a set of laws that are believed to govern the behavior of everything in the physical universe. For more than a century, it has been an effective key to understanding all kinds of things encountered in daily life. The class will explore this elegant and exciting subject in a nontechnical, nonmathematical way.

**Instructor:** Awanish Mishra holds a bachelor's degree in chemistry with a minor in quantum physics, along with a master's degree in theoretical chemistry.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$84

**Dates and times:** Choose either  
Session 1: Jan. 24 and 31 (two Thursdays), 6-9 p.m.  
or  
Session 2: March 21 and 28 (two Thursdays), 6-9 p.m.





## Careers and Certifications

### BUSINESS CHINESE FOR BEGINNERS (480\*)

This course is designed for beginning Chinese speakers who wish to conduct business with individuals speaking Chinese. Beginning with basic phonetics, students will learn accurate pronunciation and effective sentence structure, progressing to ordinary conversational topics and then business presentations.

**Instructor:** Lucia Wu has taught Chinese in the San Francisco Bay Area, including classes for beginners and advanced speakers, for more than 10 years.

**Cost:** \$295

**Materials fee:** \$30 for textbook

**Dates and times:** Choose either

Session 1: Jan. 19 and 26, Feb. 2, 9 and 23, March 2, 9 and 16 (eight Saturdays; no class on Feb. 16), 9:30 a.m.-noon

or

Session 2: March 23 and 30, April 6, 13 and 27, May 4, 11 and 18 (eight Saturdays; no class on April 20), 9:30 a.m.-noon

### CLOUD COMPUTING AND SECURITY (429\*)

Industry has largely embraced the concept of cloud computing for the many benefits it provides, including financial savings and faster time to market. Platforms like Amazon Web Services, Microsoft Azure and Google Cloud have eased the transition to cloud computing. But the cloud model introduces security challenges – and recent hacker attacks show that addressing those challenges must be a top priority. This class covers software, platforms and infrastructure as a service; security concepts; and ways to build and use a cloud-based system. No previous experience with this technology is necessary.

**Instructor:** Mourad Cherfaoui has more than 20 years of experience in computer science, academia and the tech industry. His interests include software development, distributed systems and cybersecurity.

**Class requirements:** Tablet or laptop with internet capability and USB port. Students must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$295

**Materials fee:** Lab charges up to \$10 (payable to instructor). Students will need an Amazon account to work with Amazon Web Services.

**Dates and times:** Jan. 18 and 25, Feb. 1, 8, 15 and 22 (six Fridays), 6-9 p.m.

### YOU'RE ON THE AIR: HOW TO MAKE IT IN VOICE-OVERS (451\*)

Successful voice-over artist Lisa Foster will introduce students to the voice-over business. This class will cover opportunities, techniques, income potential, demo reels and how to have reels produced. Students will make practice recordings and hear a critique of their work. This is a business with practically no overhead!

**Instructor:** Lisa Foster has been the voice for website narrations, computer games, commercials and even comedy bits. She is a well-known radio personality in the Seattle broadcast market.

**Class requirements:** Students under 18 must take this class with an adult who has also registered.

**Cost:** \$39

**Dates and times:** Choose either

Session 1: Feb. 9 (Saturday), 10 a.m.-noon

or

Session 2: April 13 (Saturday), 10 a.m.-noon

Below: The Pyramid of the Moon was a major monument of the ancient metropolis of Teotihuacán. Right: This mural of "The Great Goddess" depicts the primary deity of Teotihuacán, who may have been associated with a nearby volcano. Photos by instructor Tim King.

## Enrichment

### ANCIENT MESOAMERICA (485\*)

This course will examine the remarkable and complex civilizations of ancient Mexico, Guatemala and Belize. Students will learn about the rise and fall of the ancient Maya, the Aztecs, the Olmec and the giant city-state of Teotihuacán – along with their cosmology, religion, writing systems, calendars and daily life. These civilizations thrived in inhospitable environments, building immense cities while demonstrating sophisticated use of science and engineering.

**Instructor:** Tim King is an anthropologist and archaeologist with a wide range of research interests, including ancient Mesoamerican archaeology; ancient astronomy, sciences and writing systems; the anthropology of technology; and the mammoths of the ice age.

**Cost:** \$84

**Dates and times:** Jan. 29, Feb. 5, 12 and 19 (four Tuesdays), 6-8 p.m.







### BIRDING AND NATURE BASICS OF SANTA CLARA COUNTY (406\*)

Students will join with community members in learning about field guides and using binoculars to identify birds found in Santa Clara County. Participants will also become acquainted with different categories of birds, methods used to identify them and step-by-step processes for quickly noting bird characteristics for subsequent identification in field guides. Related field trips provide an opportunity for guided fieldwork.

**Instructor:** Larry Spivak is a long-time naturalist with more than 20 years of experience as a Santa Clara County birding enthusiast. He has taught birding for the Santa Clara Valley Audubon Society and others.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$169

**Dates, times and locations:** Classroom sessions on April 18 and 25, May 2, 9, 16 and 23 (six Thursdays), 7-9 p.m., at De Anza College. Field trips on April 27 and May 4, 11 and 18 (four Saturdays), 9 a.m.-noon, at locations to be announced.

### COOKING

These classes will introduce the student to Italian cooking techniques and teach useful tips. Students will get to cook and taste all dishes in class. Students will also receive copies of each recipe to take home.

**Instructor:** Maria Luisa Manca is a native of Sicily and loves to share Italian cooking traditions. She has taught cooking classes all over the South Bay and Peninsula.

**Cost:** \$59 for each class

**Materials fee:** \$15 for each class (payable to instructor)

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

### IN NONNA'S KITCHEN (457\*)

**March 1 (Friday), 6-8:30 p.m.**

Students will prepare special dishes from recipes passed down by the instructor's beloved grandmother.

- Fried artichokes
- Rigatoni "Nonna-style"
- Spicy sausage stuffed mushrooms in tomato sauce
- Mixed berries with mascarpone limoncello cream



### ITALIAN COUNTRY COOKING: THE SECRET OF "CUCINA POVERA" (456\*)

**April 26 (Friday), 6-8:30 p.m.**

"La Cucina Povera" means "the poor kitchen" or "peasant cooking" – a style of cooking based on a philosophy of not wasting anything.

- Roasted bell peppers with capers
- Linguine with asparagus and breadcrumbs
- Frittata with spaghetti and cheeses
- Panzanella salad

### SPRINGTIME IN ITALY (458\*)

**May 3 (Friday), 6-8:30 p.m.**

Students will recreate the magic of springtime in Italy, with dishes inspired by the lightness of the season.

- Crostini with fava beans and pecorino sheep cheese
- Spring pea homemade ravioli in lemon butter sauce
- Shaved asparagus salad with parmigiana cheese and lemon vinaigrette
- Mini-tart with mascarpone cream and strawberries

### WINTERTIME IN NORTHERN ITALY (455\*)

**Feb. 22 (Friday), 6-8:30 p.m.**

Winter is a time for warm, rich flavors – and the comfort of a warm kitchen on a chilly day.

Menu:

- Crostini with cavolo nero
- Winter squash carbonara with pancetta and sage
- Chicken with tomato and chili sauce
- Winter salad with walnut



### DISCOVER YOUR PERSONALITY TYPE (454\*)

This course is based on the Myers-Briggs Type Indicator, a questionnaire that is widely used to identify personality types and temperament. Many people use the MBTI to assess personal characteristics and guide choices for career and personal development. This class goes beyond the MBTI survey by offering students interactive scenarios for self-discovery and a workshop on how the results may be useful in the workplace and in relationships.

**Instructor:** Helen Sevic worked for IBM China after earning a doctorate in engineering from Tshinghua University of China. After working in the tech industry for 20 years, she moved to the San Francisco Bay Area in 2013.

**Cost:** \$69

**Dates and times:** Choose either

Session 1: Jan. 25 (Friday), 6-9 p.m.

or

Session 2: May 3 (Friday), 6-9 p.m.







## THE HISTORY OF WRITING, A TO Z (484\*)

Students in this class will get an in-depth look at the origins of writing in human history, including the way writing systems spread across the ancient world and how they evolved into the systems we use today. The class will also explore the ways that writing enabled civilizations to develop complex scientific and accounting systems, and learn how ancient Mayan and Egyptian hieroglyphs were deciphered after centuries of obscurity. Additional topics include “lost” writing systems and the modern arts of typography and font design.

**Instructor:** Tim King is an anthropologist and archaeologist with a wide range of research interests, including ancient Mesoamerican archaeology; ancient astronomy, sciences and writing systems; the anthropology of technology; and the mammoths of the ice age.

**Cost:** \$84

**Dates and times:** Feb. 28, March 7, 14 and 21 (four Thursdays), 6-8 p.m.

## iOS MULTIMEDIA FOR BEGINNERS (476\*)

In this class, students will learn how to use an iPhone or iPad to become a DJ, songwriter and video producer! Students who are new to the world of music, video or iOS devices are welcome. The class will include training in a variety of apps such as iMovie, Ampify, GarageBand, Green Screen, Keynote and others. Students will also learn about lighting, microphones, script writing and other production elements.

**Instructor:** David Pretre is a multimedia tech support and information specialist who has worked in Apple multimedia development. He has more than 15 years of teaching experience, including three years of teaching multimedia to third- and fourth-grade students.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered. Students should bring an iPhone or iPad to class.

**Cost:** \$249

**Materials fee:** \$50 (approximate) to purchase various apps and features. Students may purchase fewer apps as needed.

**Dates and times:** Choose either  
 Session 1: Jan. 16, 23 and 30, Feb. 6, 13 and 27 (six Wednesdays; no class on Feb. 20), 6-8 p.m.  
 or  
 Session 2: March 6, 13, 20 and 27, April 3 and 10 (six Wednesdays), 6-8 p.m.



## ITALIAN BOOK CLUB FOR INTERMEDIATES (413\*)

This is an intermediate-level course for students who are already capable of communicating clearly in Italian. Students will read and discuss mystery novels, accompanied by audio support and engaging in practice exercises for an interactive reading experience. Class discussion will emphasize reading comprehension as well as vocabulary building, to boost students' confidence and fluency while reinforcing grammar knowledge.

**Instructor:** Diana Ferrara is a passionate native speaker with a master's degree in Italian language and literature and a doctorate in European history. She has taught around the world and currently teaches at De Anza College.

**Cost:** \$159

**Class requirement:** Conversational Italian  
**Materials fee:** \$25 for books and CD (payable to instructor), unless students borrow from a library or purchase on their own

**Dates and times:** Jan. 26, Feb. 9 and 23, March 9 and 23, April 6 (six Saturdays), 10:30 a.m.-12:30 p.m.

## LEARNING FARSI AND STORIES (477\*)

This class will introduce students to Persian culture and the Farsi language. Students will learn basic speaking, listening, reading and writing in Farsi – including pronunciation, grammar, word usage and conversation. The class will emphasize the importance of language as an expression of culture.

**Instructor:** Fariba Nejat is a community organizer, entrepreneur, philanthropist and teacher. She has a bachelor's degree in physics from Shahid Beheshti University in Iran, and a bachelor's in computer science and master's in organizational leadership from National University in San Jose.

**Class requirements:** Must be age 16 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$149

**Dates and times:** Jan. 13, 20 and 27, Feb. 3 and 10 (five Sundays), 10 a.m.-noon



## PERSIAN HERITAGE AND CULTURE (478\*)

This class will explore Persian culture, from history to food and dance. Students will learn about traditions that date from the time of such kings as Cyrus the Great and Dariush I and II. Students will also learn how to make delicious Persian dishes and practice both traditional and modern dance.

**Instructor:** Mandana Nazeradl has a master's degree in international studies and global education, with a bachelor's in English education. She has taught at Duke and North Carolina State universities and has extensive experience working with students of different ages and abilities.

**Class Requirements:** Must be age 16 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$95

**Materials fee:** \$15

**Dates and times:** Choose either  
 Session 1: Jan. 17, 24 and 31, Feb. 7 (four Thursdays), 6-8 p.m.

or

Session 2: March 7, 14, 21 and 28 (four Thursdays), 6-8 p.m.







## PET FIRST AID AND DISASTER RESPONSE (379\*)

Being prepared can make all the difference when a beloved animal has a medical emergency. This class will cover how to respond effectively while minimizing suffering and preventing further injury. Students will learn about a range of injuries, illnesses and appropriate measures to take while transporting an animal to the veterinarian.

**Instructor:** Peter Pay has been teaching Pet First Aid and CPR classes in the Bay Area for more than 12 years. He is certified by the American Safety and Health Institute.

**Class requirements:** Must be age 14 or older. Students under 18 must take this class with an adult who has also registered.

**Cost:** \$45

**Materials fee:** \$15 (payable to instructor)

**Date and time:** Jan. 26 (Saturday), 9 a.m.-1 p.m.

## Finance and Real Estate

### ALL ABOUT REVERSE MORTGAGES (415\*)

Reverse mortgages can help seniors stay in their homes, while eliminating mortgage payments and providing monthly income or a line of credit. Today's FHA-insured reverse mortgage is a safe, highly regulated financial product. However, borrowers should understand the costs, risks and benefits of the five common reverse mortgage structures. This class covers what reverse mortgages are, what they actually cost, and how to use reverse mortgages to provide financial liquidity.

**Instructor:** Casey Fleming has been an appraiser, mortgage adviser, mentor and trainer since 1979. He was the president and is currently on the board of directors for the Silicon Valley chapter of the Association of Mortgage Professionals.

**Cost:** \$45

**Materials fee:** \$15 (payable to instructor)

**Dates and times:** Choose either

Session 1: Feb. 20 and 27 (two Wednesdays), 6:30-8:30 p.m.

or

Session 2: Jun. 15 (one Saturday), 9 a.m.-1 p.m.



### FINANCIAL STRATEGIES FOR SUCCESSFUL RETIREMENT (058\*)

This class will cover key concepts and practices of wise money management in preparation for retirement. Students will learn about investments, long-term health care, Social Security and Medicare, managing money for secure income and reduced taxes, estate planning, lifestyle issues and pension options. As part of the course, students will receive a 100-page workbook that details retirement strategies covered during the workshop, along with guidelines for personalized retirement planning.

**Instructor:** Dennis Shapses is a managing director for investments with a leading bank, while David Cuellar is a certified financial planner. Together they have a combined 50 years of experience in the financial services industry.

**Cost:** \$69

**Dates and times:** Choose either

Session 1: March 5, 12, 19 and 26 (four Tuesdays), 6:30-9 p.m.

Session 2: March 9 and 16 (two Saturdays), 10 a.m.-2:30 p.m.

### FINANCING YOUR NEW HOME (459\*)

This course explores loan options and techniques for determining the best interest rates available and how to get the best deal on a mortgage. Students will be able to use this information to shop for a loan and negotiate with confidence.

**Instructor:** Casey Fleming has been an appraiser, mortgage adviser, mentor and trainer since 1979. He was the president and is currently on the board of directors for the Silicon Valley chapter of the Association of Mortgage Professionals.

**Cost:** \$45

**Materials fee:** \$15 for book (payable to instructor)

**Dates and times:** Choose either

Session 1: Feb. 9 (Saturday), 9 a.m.-1 p.m.

or

Session 2: June 1 (Saturday), 9 a.m.-1 p.m.



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# Health and Wellness

## BELLY DANCING FOR BEGINNERS (417\*)

Middle Eastern dance and music are beautiful, exotic, challenging and fun! Students in this class will learn hip-work articulation, shimmies, body undulations, elegant arm and hand techniques and basic Middle Eastern dance culture. The instructor will cover a variety of dance styles from Persian, Egyptian, Turkish, Iraqi and Afghani traditions. This class is designed to be a noncompetitive environment where community members can improve their health, body image and creativity. Students will experience a thorough, safe and gentle workout while achieving balance, tone, posture awareness and strength.

**Instructor:** Marzieh Gachipour is an international dance performer and instructor who travels locally and internationally to compete and teach.

**Cost:** \$119

**Materials fee:** \$18 (payable to instructor)

**Class requirements:** Must be age 13 or older. Students under 18 must take this class with an adult who has also registered.

**Dates and times:** Choose either

Session 1: Jan. 23 and 30, Feb. 6, 13, 20 and 27, March 6 and 13 (eight Wednesdays), 6:30-7:30 p.m.

or

Session 2: March 20 and 27, April 3, 10, 17 and 24, May 1 and 8 (eight Wednesdays), 6:30-7:30 p.m.



## DE ANZA COLLEGE FITNESS CENTER

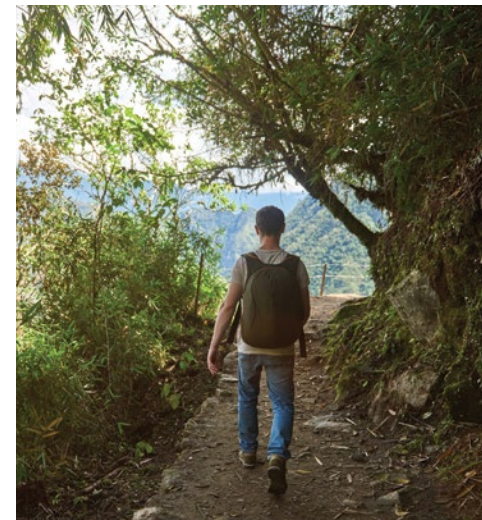
Our newly-renovated Lifetime Fitness and Wellness Center offers a variety of workout options for anyone who wants to press, flex and sweat their way to health. The relaxed and supportive gym offers easy-to-use strength and cardiovascular equipment, with plenty of body and mind solutions! Features include

- State-of-the-art machines to build aerobic endurance
- Separate matted area with strength and resistance equipment to increase balance and flexibility
- Premium gym equipment for strength development
- ACSM Certified Exercise Physiologist on staff

For any new or seasoned athlete, De Anza College's Lifetime Fitness and Wellness Center is the perfect choice for reaching health and wellness goals.

**Cost:** Veterans and staff: \$190 per year, \$50 per quarter, \$25 per month. Students and community members: \$220 per year, \$60 per quarter, \$25 per month. For current availability, visit [deanza.edu/pe/fitnesscenter](http://deanza.edu/pe/fitnesscenter)

**Dates and times:** Gym memberships are aligned with De Anza College's quarter system. For details, visit [deanza.edu/pe/fitnesscenter](http://deanza.edu/pe/fitnesscenter)



## HIKING THE PARKS AND TRAILS OF THE SANTA CRUZ MOUNTAINS (107\*)

Join instructor and guide Tom Taber for a fun and informative course that combines in-class lectures with weekend field trips. Learn about flora, fauna, geology and history as you discover scenic Peninsula and South Bay parks and trails. Each excursion will involve walking 4.5-6.5 miles in mountainous terrain. Frequent stops will be made to examine natural and historical features and to sample tasty treats made from native edible plants. Students will explore a forested canyon with a beautiful creek and lots of history at Fall Creek; an oak woodland that straddles the San Andreas Fault at Monte Bello Open Space; and an old-growth redwood grove and beautiful views at San Mateo County Memorial Park.

**Instructor:** Tom Taber is a graduate of the University of California, Davis and author of "The Santa Cruz Mountains Trail Book."

**Class Requirements:** Must be age 13 or older. Students under 18 must take this class with an adult who has also registered. This course requires moderate physical activity. Students should wear comfortable walking shoes and layered clothing, and should be able to hike mountainous terrain and walk up to 6.5 miles.

**Cost:** \$89

**Dates and times:** Classroom sessions on April 11 and May 9 (two Thursdays), 7-8:30 p.m. at De Anza College. Field trips on April 13 and 27 and May 11 (three Saturdays), 10 a.m.-4 p.m., starting at locations to be announced.

## MEDITATION FOR HEALTH, HAPPINESS, AND SUCCESS (433\*)

This class will cover meditational methods to strengthen the body and mind. These methods will help students reduce stress and anxiety, gain greater happiness, improve sleep, reduce chronic pain and lower blood pressure. Students will also learn how to increase energy, improve their immune system, alleviate depression, sharpen concentration and memory, and increase flexible thinking and resiliency – while gaining compassion, empathy, insight, creativity and wisdom.

**Instructor:** Jessica Huai has trained under renowned meditation masters at the Larung Gar Buddhist Academy in east Tibet. She has taught meditation at Foothill College and leading tech companies.

**Class requirements:** Must be age 16 or older. Students under 18 must take this class with an adult who has also registered. Students should bring a meditation cushion or yoga mat.

**Cost:** \$54

**Dates and times:** March 6, 13, 20 and 27, April 3 (five Wednesdays), 7-9 p.m.

## NATURAL STRATEGIES FOR SLUGGISH THYROID (\*452)

In this class, students will learn natural strategies for common symptoms of sluggish thyroid including fatigue, slow and consistent weight gain, constipation, cold hands or feet, ridged nails, hair loss, brain fog and metabolism problems. The course will cover such topics as self-help strategies, specific helpful and harmful foods, substances that block thyroid hormones and ways to avoid or overcome stress.

**Instructor:** Allen Dubner and Sharon Dubner are chiropractors and certified members of Health Talks USA, a national organization of natural health care professionals who deliver educational workshops. During the last 30 years, they have presented more than 800 seminars to audiences at businesses, churches, schools and health centers in Silicon Valley. They have a wellness health center in San Jose.

**Cost:** \$45

**Date and time:** March 7 (Thursday), 6:30-8:30 p.m.





# De Anza College **ED2GO** for Teens & Adults

## EXPERIENCE “EDUCATION TO GO” ONLINE CLASSES THAT YOU CAN ACCESS ANYTIME & ANYWHERE!

De Anza's Community Education program offers more than 450 online courses that are designed for students age 14 or older. These classes are informative, fun, convenient and highly interactive. Ed2Go focuses on creating a supportive and positive learning community. Courses are instructor-led and project-oriented, featuring lessons, hands-on assignments, discussions and supplementary links. New course sessions start every month!

All courses are six weeks long, with an optional two-week extension. You can complete these courses from any location and at any time, day or night. All you need is an email account and internet access. Course start dates are Jan. 16, Feb. 13, March 13, April 17, May 15, June 12, July 17, Aug. 14, Sept. 11, Oct. 16, Nov. 13 and Dec. 11. For more information, please visit the Ed2Go Online Instruction center:

[WWW.ED2GO.COM/FHDA](http://WWW.ED2GO.COM/FHDA)

### DE ANZA'S MOST POPULAR COURSES:

1. SAT/ACT Prep Course Part I
2. C# Programming
3. Java Programming
4. Python 3 Programming
5. SQL Programming
6. Microsoft Office Value Suite
7. Project Management II
8. GRE Preparation
9. Speed Spanish
10. Writing Essentials



### SAMPLE COURSE OFFERINGS:

#### ACCOUNTING & FINANCE

- Accounting Fundamentals I and II
- Business Finance for Non-Finance Personnel
- Crystal Reports
- Microsoft Office Accounting Professional
- Payroll Practice and Management
- Peachtree Accounting
- Personal Finance
- Quickbooks
- Real Estate Investing I and II
- Statistics
- Stock Trading Suite

#### BUSINESS

- Administrative Assistant Suite
- Catering Professional
- Creating a Successful Business Plan
- Customer Service
- Digital Marketing Suite
- Effective Business Writing
- Entrepreneurship Suite (Project Management and Effective Communication)
- Manager Suite
- Certified Pharmaceutical Sales Representative (Exam Included)
- Project Management Professional (PMP®)

- Project Management Fundamentals Suite
- Public Speaking
- Restaurant Manager
- Sales Training Suite
- Small Business Marketing on a Shoestring
- Start Your Own Business
- Supervision and Management
- Veterinary Assistant with Horse Care

#### CHILDREN, PARENTS & FAMILY

- Homeschool with Success
- Managing Life as a Single Parent
- Marriage and Relationships: Keys to Success
- Navigating Divorce
- Ready, Set, Read!
- Response to Intervention: Reading Strategies
- Singapore Math Strategies
- Teaching Students With Learning Disabilities
- Understanding Adolescents

#### COMPUTING & NETWORKING

- Adobe Acrobat X
- Computer Networking Suite
- CorelDRAW
- Home PC Security
- Linux
- LPI Linux Essentials Exam Prep
- Microsoft Office: Word, Excel, PowerPoint, Access, Project, Publisher
- PC Troubleshooting
- Understanding the Cloud
- Wireless Networking

#### DATABASE MANAGEMENT & PROGRAMMING

- Ajax, Ruby & Java
- C# Programming Series
- C++
- CSS
- Database Development
- Dreamweaver
- HTML and CSS Series
- Mac, iPhone and iPad Programming
- PHP and MySQL Series
- Python
- Visual Basic Series
- Web Design
- XML

#### GRAPHICS, VIDEO DESIGN & PHOTOGRAPHY

- 3ds Max
- Adobe Edge Animate
- Adobe Suite (Acrobat, Dreamweaver, Final Cut, Flash, Illustrator, InDesign, Photoshop)
- Lightroom CC
- Movies with Windows XP or Vista
- Photography
- Video Game Design and Development

#### GRANT WRITING & NONPROFIT MANAGEMENT

- A to Z Grant Writing Series
- Grant Writing Suite
  - Intro to Nonprofit Management
  - Marketing Your Nonprofit
  - Nonprofit Fundraising Essentials
- Nonprofit Suite
- Writing Essentials

#### HEALTHCARE

- Administrative Dental Assistant
- Optical Assistant
- Certificate in Energy Medicine
- Certificate in Infectious Diseases and Infection Control
- Certificate in Legal and Ethical Issues in Healthcare
- Certificate in Perinatal Issues
- HIPAA Compliance
- Human Resources for Healthcare Professionals
- Medical Terminology Series
- Physical Therapy Aide

#### HEALTH & WELLNESS

- Certificate in Food, Nutrition and Health
- Certified Professional Life Coach
- Happy and Healthy Pregnancy
- Healthy Living Suite
- Medical Office Basics Suite
- Natural Health and Healing

#### LANGUAGES

- Easy English I, II and III
- French
- Grammar for ESL
- Italian
- Japanese
- Sign Language
- Speed Spanish I, II and III

#### PERSONAL ENRICHMENT

- Drawing for the Absolute Beginner
- Merrill Ream Speed Reading
- Genealogy Basics

#### WRITING & PUBLISHING

- Beginning Writer's Workshop
- Effective Business Writing
- Fantasy Novel
- Grammar Refresher Series
- Magazine Writing
- Screenwriting
- Write and Publish Your Nonfiction Book
- Writing Young Adult Fiction



# DeAnza College ACADEMY

YEAR-ROUND YOUTH ENRICHMENT PROGRAMS FOR GRADES 1-12



## ARDUINO – BEGINNING LEVEL (Grades 5-8 and 9-12) (462\*)

This class is a great introduction to building devices that interact with the outside world. Students will experiment with devices that read temperature and control lights, music, motors and LCDs. Assignments will start with a single sensor and build to more complex projects, while integrating or controlling multiple inputs and outputs for things like burglar alarms, traffic lights, keyboard pianos and game consoles. Students will also learn fundamentals of Arduino C/C++ development and use an online simulator to better understand hardware and software.

**Instructor:** Carol Johnson teaches engineering at Foothill College and various STEM (science, technology, engineering and math) subjects at the middle- and high-school level. She has more than 20 years of experience in private industry and a knack for making complicated topics understandable, fun and challenging.

**Cost:** \$195

**Materials fee:** \$65 for an Arduino kit

**Dates and times:**

Grades 5-8: Jan. 8, 15, 22 and 29, Feb. 5, 12 and 26, March 5, 12 and 19 (10 Tuesdays; no class on Feb. 19), 5:30-6:50 p.m.

Grades 9-12: Jan. 10, 17, 24 and 31, Feb. 7, 14 and 28, March 7, 14 and 21 (10 Thursdays; no class on Feb. 21), 5:30-6:50 p.m.

## BBC MICRO:BIT PROGRAMMING, TINKERING AND MAKING – BEGINNING LEVEL (Grades 5-8) (460\*)

In this class, students will learn to program and tinker with the BBC micro:bit – a piece of computing hardware designed to help young students become familiar with LEDs, buttons, capacitive touch pins, light and temperature sensors, motion sensors and wireless communication. Students will use Microsoft's MakeCode JavaScript Blocks as a web-based programming interface. They will also brainstorm a maker project involving cardboard engineering.

**Instructor:** Ben Guansing has taught middle school for 15 years and is a self-taught technologist. He has used Linux since 2004 and became a Raspberry Pi Certified Educator in 2016. He is passionate about maker-based education.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Materials fee:** \$75

**Dates and times:** Jan. 7, 14, 21 and 28, Feb. 4, 11 and 25, March 4, 11 and 18 (10 Mondays; no class on Feb. 18), 4-5:20 p.m.





## BBC MICRO:BIT PROGRAMMING, TINKERING AND MAKING – INTERMEDIATE LEVEL (Grades 5-8) (461\*)

Students in this intermediate class will learn more about programming and tinkering with the BBC micro:bit – a versatile piece of hardware designed for demonstrating computer science. The course will include the use of a breakout board to expand the micro:bit's capabilities. Students will use the Python programming language and the Mu Python editor. They will also brainstorm a maker project involving cardboard engineering.

**Instructor:** Ben Guansing has taught middle school for 15 years and is a self-taught technologist. He has used Linux since 2004 and became a Raspberry Pi Certified Educator in 2016. He is passionate about maker-based education.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Materials Fee:** \$60

**Dates and times:** April 1, 8, 22 and 29, May 6, 13, 20 and 27, Jun. 3 and 10 (10 Mondays; no class on April 15), 4-5:20 p.m.



## CHESS SKILLS AND TOURNAMENTS

(Grades 1-4) (481\*)

Chess promotes logic, concentration and problem-solving abilities. This course will include basic instruction and some intermediate-level strategy. Students will learn to plan and “see the board,” while participating in tournaments.

**Instructors:** “Yes for Chess” instructors teach critical thinking, creative problem-solving and patience in a fun and stimulating setting. Instructors work with all skill levels, from beginners to advanced.

**Cost:** \$195

**Dates and times:** Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 11 a.m.-12:20 p.m.

## DRAWING AND PAINTING (Grades 5-8) (463\*)

In this class, students will learn and practice both classical and contemporary techniques, while exploring fun and challenging themes. The class will include rendering skills and observational and creative thinking, while helping students gain confidence in their artistic abilities. Students will use a variety of media, including Prismacolor pencils, oil pastels and water-soluble oil paint.

**Instructor:** Laurin Chichkanoff is an art instructor at Milton Murphy Middle School and the Euphrat Museum of Art's community-based Arts & Schools Program. She has a bachelor's degree in spatial art, with a minor in art education, from San José State University.

**Cost:** \$195

**Materials fee:** \$30

**Dates and times:** Jan. 8, 15, 22 and 29, Feb. 5, 12 and 26, March 5, 12 and 19 (10 Tuesdays; no class on Feb. 19), 4-5:20 p.m.

## JAVA PROGRAMMING – BEGINNING LEVEL (Grades 5-8 and 9-12) (420\*)

This 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.

**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:**

Grades 5-8: Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 4-5:20 p.m.

Grades 9-12: Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 1-2:20 p.m.

**Instructor:** Sukanya Sreekumar is an experienced programmer and teacher. She has a master's degree in computer applications.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:**

Grades 5-8: Jan. 9, 16, 23 and 30, Feb. 6, 13 and 27, March 6, 13 and 20 (10 Wednesdays; no class on Feb. 20), 5:30-6:50 p.m.



## JAVA PROGRAMMING – INTERMEDIATE LEVEL (Grades 5-8 and 9-12) (464\*)

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. The class will cover 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.

**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:**

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), 4-5:20 p.m.

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), 1-2:20 p.m.

**Instructor:** Sukanya Sreekumar is an experienced programmer and teacher. She has a master's degree in computer applications.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:**

Grades 5-8: April 3, 10 and 24, May 1, 8, 15, 22 and 29, June 5 and 12 (10 Wednesdays; no class on April 17), 5:30-6:50 p.m.





### PERSIAN (FARSI) FOR BEGINNERS (Grades 1-6 and 7-12) (465\*)

This class will introduce students to the basics of the Persian language, including reading and writing in Farsi. Students will learn to sound out simple words and phrases before advancing to read various books and materials.

**Instructor:** Mandana Nazeradl has a master's degree in international studies and global education, with a bachelor's in English education. She has taught at Duke and North Carolina State universities and has extensive experience working with students of different ages and abilities.

**Cost:** \$195

**Materials fee:** \$40 for book

**Dates and times:**

Grades 1-6: Jan. 12, 19 and 26, Feb. 2, 9 and 23, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 16), 11 a.m.-12:20 p.m.

Grades 7-12: Jan. 12, 19 and 26, Feb. 2, 9 and 23, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 16), 1-2:20 p.m.



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### PERSIAN (FARSI) – INTERMEDIATE LEVEL (Grades 1-6 and 7-12) (466\*)

Students in this class will continue to learn the Persian language, while writing intermediate-level sentences, letters and short essays. This class will also cover aspects of Persian culture that are embedded in the language. This class is suitable for students who took Persian (Farsi) for Beginners, or those who have had prior instruction from a family member or teacher.

**Instructor:** Mandana Nazeradl has a master's degree in international studies and global education, with a bachelor's in English education. She has taught at Duke and North Carolina State universities and has extensive experience working with students of different ages and abilities.

**Class requirements:** Students should be familiar with basic reading and writing in Farsi, including the Farsi alphabet and short sentences.

**Cost:** \$195

**Materials fee:** \$40 for book

**Dates and times:**

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), 11 a.m.-12:20 p.m.

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), 1-2:20 p.m.

### PLANETARY DISCOVERIES: SEARCHING FOR NEW EARTHS (Grades 5-8) (479\*)

The search for planets outside our solar system is one of the hottest topics in astronomy today. In this planetarium-based class, students will learn about the tools and techniques that have been used to discover nearly 4,000 planets. Students will then gather their own data from a robotic telescope and analyze the data to identify and characterize an exoplanet. The class will also cover the impact of NASA's Kepler and TESS Missions, as well as plans for future exoplanet missions.

**Instructor:** Mike Askins is senior program presenter at the De Anza Planetarium, where he has led classes in astronomy and engineering and presented programs to the public and school groups. Mike has also been a software engineer at several tech companies and worked on an aircraft simulation contract at the NASA Ames Research Center.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:** April 5, 12 and 26, May 3, 10, 17, 24 and 31, June 7 and 14 (10 Fridays; no class on April 19), 4-5:20 p.m.



### PYTHON PROGRAMMING – BEGINNING LEVEL (Grades 1-4 and 9-12) (467\*)

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 be defining new object classes, creating interactive applications with buttons, learning about animation and creating an interactive game using Python. The class will also cover fundamental principles of object-oriented programming, as well as data and information processing techniques.

**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Materials fee:** \$80

**Dates and times:**

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), 9:30-10:50 a.m.

Grades 9-12: Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 11 a.m.-12:20 p.m.

### PYTHON PROGRAMMING – INTERMEDIATE LEVEL (Grades 5-8 and 9-12) (419\*)

This course will help students strengthen their skills and build on what they have learned in previous introductory classes. Through practical examples, students will gain a deeper understanding of 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.



**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:**

Grades 5-8: Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 2:30-3:50 p.m.

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), 11 a.m.-12:20 p.m.

## PYTHON PROGRAMMING – ADVANCED LEVEL (Grades 5-8) (468\*)

This class is for students who like to solve problems and want to learn advanced programming techniques. The instructor will start with a brief review of Python basics and then dive into more advanced aspects of the programming language. Students should already have intermediate-level knowledge of Python programming.

**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.



**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:** April 6, 13 and 27, May 4, 11, 18 and 25, June 1, 8 and 15 (10 Saturdays; no class on April 20), 2:30-3:50 p.m.

## RASPBERRY PI PROGRAMMING, TINKERING AND MAKING – BEGINNING LEVEL (Grades 5-8) (469\*)

This class will introduce students to the basics of breadboard circuits and their use in controlling the inputs and outputs of LEDs, momentary buttons, motion sensors, ultrasonic sensors, microsensors and continuous-motion servos. Students will use the Python programming language and the Mu Python editor. They will also use the Pi Camera for taking pictures and video and combining them with sensors. This will lead to a final maker project using a combination of electronic components.

**Instructor:** Ben Guansing has taught middle school for 15 years and is a self-taught technologist. He has used Linux since 2004 and became a Raspberry Pi Certified Educator in 2016. He is passionate about maker-based education.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Materials fee:** \$100

**Dates and times:** Jan. 7, 14, 21 and 28, Feb. 4, 11 and 25, March 4, 11 and 18 (10 Mondays; no class on Feb. 18), 5:30-6:50 p.m.

## RASPBERRY PI PROGRAMMING, TINKERING AND MAKING – INTERMEDIATE LEVEL (Grades 5-8) (470\*)

This class will help students explore more capabilities of the Raspberry Pi, an amazing device that was designed for teaching computer science and has since become popular in the maker movement. Students will use the Raspberry Pi Explorer HAT Pro to learn about capacitive touch interaction

and controlling other components such as LEDs and motors. Students will also learn about using the Pi Camera for taking pictures and video. The class will brainstorm a maker project using cardboard engineering.

**Instructor:** Ben Guansing has taught middle school for 15 years and is a self-taught technologist. He has used Linux since 2004 and became a Raspberry Pi Certified Educator in 2016. He is passionate about maker-based education.

**Class requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

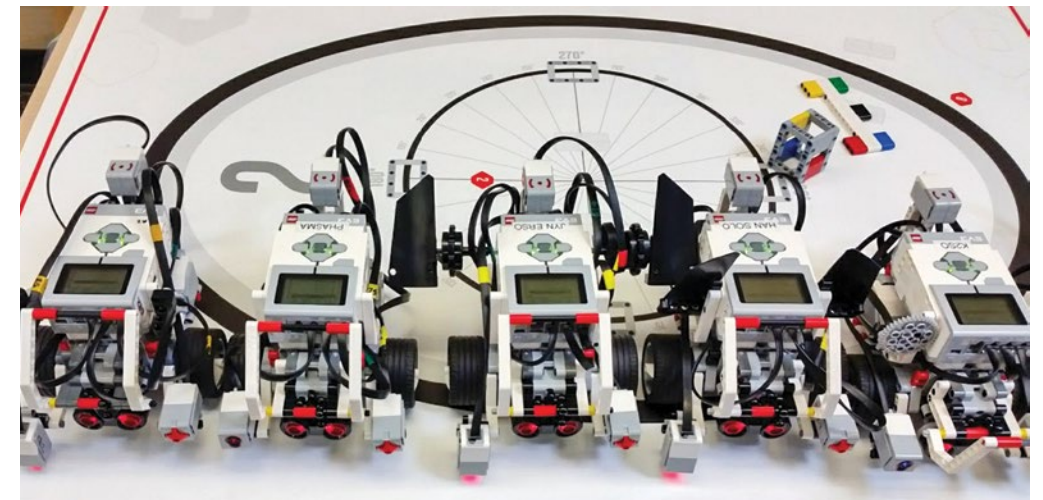
**Materials fee:** \$75

**Dates and times:** April 1, 8, 22 and 29, May 6, 13, 20 and 27, June 3 and 10 (10 Mondays; no class on April 15), 5:30-6:20 p.m.

## ROBOTICS AND ENGINEERING – BEGINNING LEVEL (Grades 5-8) (471\*)

This class is a fun and exciting introduction to building and programming robots, using the Lego Mindstorms EV3 kit and other tools. Students will develop creative thinking and problem-solving abilities, while learning engineering principles, programming and design skills. Students will work in teams to construct their robot designs. This class is good preparation for students interested in robotics competitions. Prior experience in robotics is a plus but not required.

**Instructor:** Eva Carrender works as a consultant teaching robotics at charter school



and after-school enrichment programs. She's a Lego Mindstorms expert and a Lego Academy trainer who helps other teachers learn about STEAM (science, technology, engineering, art and math).

**Cost:** \$495

**Dates and times:**

Grades 5-8: Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays; no class on Feb. 23), 9:30 a.m.-12:20 p.m.

## ROBOTICS AND ENGINEERING – INTERMEDIATE LEVEL (Grades 5-8) (472\*)

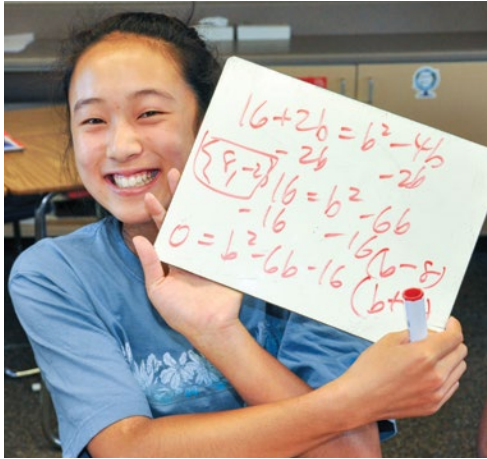
This course is for students who want to increase their programming and robotics skills by focusing on design engineering principles. Students will use the Lego Mindstorms EV3 kit and other tools to design, build and program their own robot creations and to complete game challenges. The class will emphasize creative thinking and problem solving. Prior experience in robotics is recommended.

**Instructor:** Eva Carrender works as a consultant teaching robotics at charter school and after-school enrichment programs. She's a Lego Mindstorms expert and a Lego Academy trainer who helps other teachers learn about STEAM (science, technology, engineering, art and math).

**Cost:** \$495

**Dates and times:** April 6, 13 and 27, May 4, 11, 18 and 25, June 1, 8 and 15 (10 Saturdays; no class on April 20), 9:30 a.m.-12:20 p.m.





### SAT MATHEMATICS (Grades 9-12) (473\*)

This course will help students prepare for the math section of the SAT, including changes that have been made since the introduction of Common Core State Standards. The instructor will address different types of math questions on the test, while also teaching general skills for success and focusing on each student's broader goals. The class will also cover concepts that can be applied to other math classes and everyday life. An SAT prep book is provided.

**Instructor:** Arshdeep Shinh has a teaching credential and a master's degree in instruction and curriculum from the University of Phoenix, as well as a bachelor's degree in math and physics from Guru Nanak Dev University in India.

**Cost:** \$495

#### Dates and times:

**Session 1 – Preparation for the SAT given**

**March 9:** Choose either

Jan. 5, 12, 19 and 26, Feb. 2, 9 and 23, March 2 (eight Saturdays; no class on Feb. 16), 1-3:50 p.m.

or

Jan. 10, 17, 24 and 31, Feb. 7, 14, and 28, March 7 (eight Thursdays; no class on Feb. 21), 4-6:50 p.m.

**Session 2 – Preparation for the SAT given**

**May 4:** Choose either

March 9, 16, 23 and 30, April 6, 13, 20 and 27 (eight Saturdays), 1-3:50 p.m.

or

March 14, 21 and 28, April 4, 11, 18 and 25, May 2 (eight Thursdays), 4-6:50 p.m.

### SAT WRITING AND LANGUAGE, READING AND ESSAY

(Grades 9-12) (474\*)

This course will help each student prepare an individualized plan for SAT preparation, while providing extensive practice for the Writing and Language, Reading and Essay sections of the test. Students will learn and practice strategies for all types of questions they may encounter. The class also covers planning for vocabulary enhancement and provides class time for skills development, including evidence-based interpretation, applying context in analysis, and understanding organization and structure for sentences, passages and essays. An SAT prep book is provided.

**Instructor:** Elisabeth Kantorik earned bachelor's degrees in psychology and theology from William Jessup University. She was a teacher in the Teach for America program, earning credentials in English, language arts, special education and elementary education. She is now pursuing a master's degree in policy, organization and leadership studies at Stanford.

**Cost:** \$495

#### Dates and times:

**Session 1 – Preparation for the SAT given**

**March 9:** Choose either

Jan. 5, 12, 19 and 26, Feb. 2, 9 and 23, March 2 (eight Saturdays; no class on Feb. 16), 9:30 a.m.-12:20 p.m.

or

Jan. 7, 14, 21 and 28, Feb. 4, 11 and 25, March 4 (eight Mondays; no class on Feb. 18), 4-6:50 p.m.

**Session 2 – Preparation for the SAT given**

**May 4:** Choose either

March 9, 16, 23 and 30, April 6, 13, 20 and 27 (eight Saturdays), 9:30 a.m.-12:20 p.m.

or

March 11, 18 and 25, April 1, 8, 15, 22 and 29 (eight Mondays), 4-6:50 p.m.



### SCRATCH PROGRAMMING – BEGINNING LEVEL (Grades 1-4) (385\*)

This course walks students through the steps of programming a game, explaining key concepts as they arise. Students will start by sketching out what the game will look like, before planning and coding the main parts of the program. This course provides a hands-on, problem-solving approach to learning programming and related concepts in computer science. This approach is designed to cultivate students' imaginations and make the computer-programming experience accessible.

**Instructor:** Eya Badal is a longtime software engineer who is currently pursuing an advanced software engineering degree. She has a knack for making difficult topics understandable.

**Class Requirements:** Tablet or laptop with internet capability and USB port

**Cost:** \$195

**Dates and times:** Jan. 12, 19 and 26, Feb. 2, 9 and 16, March 2, 9, 16 and 23 (10 Saturdays – no class on Feb. 23), 9:30-10:50 a.m.

### SCULPTURE AND CLAY (Grades 5-8) (475\*)

In this class, students will create original sculptures and ceramic artwork at the Euphrat Museum of Art. Each week, students will learn and practice different sculpture or clay techniques and strengthen their observational, analytical and creative thinking skills. Personal expression and problem-solving will be encouraged. Ceramic projects will be glazed and fired.

**Instructor:** Laurin Chichkanoff is an art instructor at Milton Murphy Middle School and the Euphrat Museum of Art's community-based Arts & Schools Program. She has a bachelor's degree in spatial art, with a minor in art education, from San José State University.

**Cost:** \$195

**Materials fee:** \$30

**Dates and times:** April 2, 9, 23 and 30, May 7, 14, 21 and 28, June 4 (10 Tuesdays; no class on April 16), 4-5:20 p.m.



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De Anza College  
**COMMUNITY EDUCATION**  
 De Anza College Academy • Planetarium • Short Courses

## Registration & Policies

### CONTACT

#### COMMUNITY EDUCATION

**OFFICE:** De Anza College Learning Center (LC 141), 21250 Stevens Creek Blvd., Cupertino, CA 95014

**HOURS:** Monday – Thursday, 9 a.m.-4:30 p.m.; Friday, 9 a.m.-4 p.m. The office is closed during holidays and other campus closures.

**PHONE:** 408.864.8817

**EMAIL:** [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu)

**WEBSITE:** [deanza.edu/communityed](http://deanza.edu/communityed)

#### PLANETARIUM

The Planetarium is located on the De Anza College Campus, behind the Science Center Building next to parking Lot E.

**PHONE:** 408.864.8814

**EMAIL:** [planetarium@deanza.edu](mailto:planetarium@deanza.edu)

**WEBSITE:** [deanza.edu/planetarium](http://deanza.edu/planetarium)

### PARKING

All vehicles in De Anza College parking lots must display a parking permit at all times. No dates or vehicles are exempt. One-day parking permits cost \$3 each and are available in red and yellow dispensers located in each student parking lot. Parking permits are nonrefundable, even if your class is canceled.

### ROOM ASSIGNMENTS

Room assignments will be posted online and sent to students by email before the class begins. The letters in each room designation define the quad and building in which the course is located. The numbers that follow define the room. *Example: S 34 is located in the S3 building of the S Quad. All G classrooms are located in the single G building by Parking Lot E.* For the most current campus map, see [www.deanza.edu/map](http://www.deanza.edu/map).

### EASY WAYS TO ENROLL

All new students must create a student profile in the registration system before enrolling in a class. If you forget your username or password, you can retrieve it by clicking the “Forgot My Password” link on the sign-in page.

**ONLINE:** Register online 24/7 with a valid Visa, MasterCard or Discover card. Visit [communityeducation.deanza.edu](http://communityeducation.deanza.edu) for information and instructions. If you need technical assistance, please call 408.864.8817.

**IN PERSON:** Register at the Community Education office on the southwest corner of the Learning Center in room LC 141 (across from the Learning Center West building).



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[deanzacommunityeducation](https://www.facebook.com/deanzacommunityeducation)

### CLASS CONFIRMATION & TRANSACTION RECEIPTS

Once you create your student profile and enroll, you will receive confirmation and a receipt via email. You can also view the transaction receipt and class confirmation from the online registration system.

### MATERIALS FEES

Some classes may require a materials fee. Unless otherwise noted, materials fees will be collected by Community Education at the time of registration. Materials fees are non-refundable.

### CAMPUS SECURITY

**WEEKDAYS:** 408.864.5555

**WEEKENDS AND EMERGENCIES:**  
408.924.8000

### CANCELED CLASSES

De Anza College Community Education reserves the right to change or combine courses, programs, presenters and locations. If Community Education cancels a class, you will be notified no later than one business day prior to the start date via telephone or email. A full refund will be issued to your credit card within two weeks of the cancellation.

### DROP & REFUND POLICY

If you need to withdraw from a course, you must submit an email request to the Community Education office at least five business days prior to the first class. Holidays and campus closures are not considered business days. No phone requests for refunds will be accepted. A \$15 processing fee per class will be deducted. Credit card refunds may take up to 30 working days to process.

**ELECTRONIC VOUCHERS:** If you choose to receive an electronic voucher, the \$15 processing fee will be waived. Vouchers are good for one calendar year from the date of issue. Refunds for Planetarium shows are not issued. There are no refunds after the electronic voucher has been processed. Please email [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu) to request a refund.

**ABSENCES AND FEES:** Refunds are not issued for absences nor prorated for late registration. Missed class meetings may not be made up in another class.

### COURSE & PUBLICATION INFORMATION

De Anza College Community Education courses provide lifelong learning opportunities and local recreation. The Community Education Department has made every reasonable effort to determine that the information in this catalog is accurate.

### SIGN LANGUAGE SERVICES

De Anza College is committed to providing sign language interpreting services for Community Education courses whenever possible, through a partnership with De Anza’s Office of Deaf and Hard of Hearing Services. Requests for interpreting services must be made 30 days in advance of a class start date. Please email [communityeducation@deanza.edu](mailto:communityeducation@deanza.edu) to request services.

### ADDITIONAL INFORMATION

De Anza College is committed to equal opportunity regardless of age, gender, marital status, disability, race, color, sexual orientation, religion, national origin or other similar factors for admission to the college, enrollment in classes, student services, financial aid and employment.

Instructor’s personal views and statements do not necessarily reflect those of De Anza College.

De Anza College assumes no responsibility for any consequences that may arise from a student’s decision to enter into business or professional arrangements with an instructor outside of the college’s scheduled activity. All instructors are prohibited from entering into business relationships with Community Education students during class.



# DIRECTORY

## How to Locate Buildings and Rooms

Building numbers are the first digit of room numbers.  
Example: Room S-73 is located in Building S-7.

<b>Administration Building</b>	President, Vice Presidents and Associate Vice Presidents (Instruction, Student Services, Finance and College Operations, Communications), Academic Services, Budget and Personnel, Institutional Research, Rental Facilities Coordinator, Mailroom Gilbane Construction
<b>Lobby</b> ADM-101,102 103 106, 109 119	Classrooms Classroom Conference Rooms Classroom
<b>A-1</b> <b>A-4</b>	Choral Hall Creative Arts Division Office, Faculty Offices
<b>A-5</b> <b>A-6</b> <b>A-7</b> <b>A-9</b>	Ceramics/Painting Studio Photography Studio Sculpture Studio Classrooms
<b>AT – Advanced Technology Center</b>	Labs and Classrooms for Accounting, Computer Access Lab, Computer Information Systems (CIS), Disability Support Programs and Services, Engineering, English, English as a Second Language (ESL), Film/TV, Graphic Design, Language, Manufacturing and Design, Mathematics, Statistics, Student Success Center
<b>Baldwin Winery</b>	Financial Aid, Printing Services, Part-time Faculty Offices
<b>Hinson Campus Center Upper Level</b>	Dining Rooms, Dining Services, Meeting Rooms: Conference Rooms A and B, Don Bautista Room, El Clemente Room, Fireside Room, Meeting Room 1, Santa Cruz Room, Staff Lounge, Meditation and Prayer Room
<b>Lower Level</b>	Foothill-De Anza District Police, De Anza Associated Student Body (DASB) Offices, DASB Card Office, Office of College Life, Dean of Student Development, EOPS/CARE, Flea Market Office, Le Café, Health Services, Inter-Club Council (ICC) Office, Student Accounts, Student Council Chambers
<b>CDC</b> <b>CHC</b>	Child Development Center California History Center (Trianon Building)
<b>ECOT-1</b>	Vasconcellos Institute for Democracy in Action (VIDA)
<b>E-1</b> <b>E-2</b> <b>E-3</b>	Automotive Technology Design and Manufacturing Technologies Classrooms, Faculty Offices
<b>ESA</b>	Environmental Study Area Lab
<b>F-1 through 6</b> <b>FC</b>	Faculty Offices Flint Center, Box Office
<b>FOR – Forum</b>	Art History Slide Library/Office, Faculty Offices, Lecture Halls
<b>F-1,2,3</b> <b>F-4,6</b>	Faculty Offices Faculty Offices
<b>G-1 through 10</b>	General Purpose Classrooms, Grounds and Custodial Warehouse – Plant Services
<b>HTCTU – Hoefler Building</b>	High Tech Center Training Unit
<b>KC – Kirsch Center For Environmental Studies</b>	Biological, Health and Environmental Sciences/Workforce Education Division Office, Faculty Offices, Classrooms

<b>LCW – Learning Center West</b>	Audio Visual, Classrooms, Deaf and Hard of Hearing Services, Disability Support Services Testing and Tutoring, Library West Computer Lab; Student Success and Retention Services
<b>Library – (Rear)</b>	Community Education – Extended Year Program, Short Courses
<b>L-1</b> <b>L-2,3</b> <b>L-4</b> <b>L-5</b> <b>L-6,8</b> <b>L-7</b>	Business, Computer Science and Applied Technologies Division Office, Language Arts Division Office, Social Sciences/Humanities Division Office Classrooms/Psychology Lab La Voz, Red Wheelbarrow, Classrooms Restrooms Classrooms Data Services
<b>Media and Learning Center (MLC)</b>	Online Education, Equity Office, Learning Resources, Multimedia Team, Professional Development
<b>Mod Quad</b> MQ-1 MQ-2 MQ-3	ETS Classroom Classroom
<b>MCC</b>	Intercultural/International Studies Division Office and Multicultural Center
<b>PE-1</b> <b>PE-2</b> <b>PE-4</b> <b>PE-5</b> <b>PE-6</b>	Auxiliary Gyms, Physiology Lab Main Gym P.E. Division Office, Recreational Sports/Intramural Office, Faculty Offices Faculty Offices Fitness and Wellness Center, Locker Rooms, Faculty Offices
<b>PLT – Planetarium</b>	De Anza College Planetarium
<b>Science Center</b> SC-1 SC-2 SC-3	Lecture Hall, Faculty Offices Labs Pavilion
<b>SEM – Seminar</b>	CompTechS/Computer Donation Program, Outreach and Relations with Schools, Occupational Training Institute (OTI), County Office of Education
<b>S-1</b> <b>S-2</b> <b>S-3</b> <b>S-4</b> <b>S-5</b> <b>S-6</b> <b>S-7</b> <b>S-8</b> <b>S-9</b>	Geology/Physics Classrooms, Faculty Offices Restrooms Classrooms/Physical Science/Math/Engineering Division Office, Faculty Offices, Honors Program Classrooms/Math and Science Tutorial Center, Faculty Offices Classrooms, Faculty Offices Restrooms Classrooms, Faculty Offices Nursing/Classrooms Faculty Offices
<b>RSS – Registration and Student Services Building</b>	Admissions and Records, Articulation, Assessment Center (Testing), Bookstore, Cashier, Counseling and Advising Center, DASB Bike Rental Corral, Educational Diagnostic Center, International Student Office, Matriculation, Psychological Services, Transcripts, Transfer Center, Veteran Services
<b>VPAC – Visual &amp; Performing Arts Center</b>	Art History Classroom, Auditorium/Lecture Hall, Euphrat Museum of Art







De Anza College

# PLANETARIUM

## ASTRONOMY AND LASER LIGHT SHOWS

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

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

### JANUARY

#### SATURDAY, JAN. 12

- 3:30 p.m. The Moon
- 5 p.m. Earth, Moon and Sun
- 7 p.m. Phantom of the Universe
- 8:15 p.m. Laser EDM: Electronic Dance Music  
*(free admission for De Anza students and staff)*
- 9:15 p.m. Laser Beyoncé\*  
*(free admission for De Anza students and staff)*

#### SATURDAY, JAN. 19

- 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

#### SATURDAY, JAN. 26

- 3:30 p.m. The Little Star that Could
- 5 p.m. Earth, Moon and Sun
- 7 p.m. On the Moon with Apollo  
*(with Marek Cichanski, Chair of De Anza's  
Astronomy Department)\*\**
- 8:15 p.m. Laser Beatles Anthology
- 9:15 p.m. Laser Stranger Things

### FEBUARY

#### SATURDAY, FEB. 2

- 3:30 p.m. This is Our Sky!
- 5 p.m. Cosmic Journey
- 7 p.m. Stars
- 8:15 p.m. Laser Beatles: Sgt. Pepper
- 9:15 p.m. Laser Pink Floyd: The Wall

\* New show

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

\*\*\*Two-part course; see page 6 for details

#### SATURDAY, FEB. 9

- 3:30 p.m. Magic Tree House
- 5 p.m. The Moon
- 7 p.m. Astronaut
- 8:15 p.m. Laser Bob Marley\*
- 9:15 p.m. Laser Pink Floyd:  
The Dark Side of the Moon

#### SATURDAY, FEB. 16 – CLOSED

#### SATURDAY, FEB. 23

- 3:30 p.m. The Little Star that Could
- 5 p.m. Firefall
- 7 p.m. Planet Nine
- 8:15 p.m. Laser Stranger Things
- 9:15 p.m. Laser Queen

### 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



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

408.864.8814



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#### 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





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# DeAnza College **ACADEMY**

SUMMER YOUTH ENRICHMENT PROGRAM FOR GRADES 1-12

**REGISTRATION OPENS FEB. 20 AT 9 A.M.**



## **ELEMENTARY AND MIDDLE SCHOOL**

Art and Design, Mathematics, Science,  
Robotics, Programming, Physical Education,  
Writing, Speaking, Test Preparation  
AND MORE!

June 17-July 12



## **GRADES 9-12 CLASSES HELD AT DE ANZA COLLEGE**

SAT Prep for Math, Writing and Language,  
Reading and Essay; Art and Design  
with the Euphrat Museum of Art; Social  
Sciences; Speech and Debate; Mathematics;  
Programming AND MORE!

July 15-Aug. 2



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