



Dear Parents,

It is a pleasure to announce the upcoming **2023/2024 After School Program**.

The program will continue in person starting at 3:00 PM immediately after the dismissal. All classes are scheduled for 1st & 2nd semesters.



LINK to the SCHEDULES:

Junior School (JA-J4)

Middle School (M1-M4)

High School (T1-T4)

PROGRAM DESCRIPTION & DEVELOPMENT

The after school program provides the students an opportunity to explore activities of particular interest outside of the regular school program. The after school offers an array of activities that promote life skills and enhance the cognitive social and emotional development of the students. We strive to provide an engaging choice-oriented programming that is aligned with the school's mission, a program that inspires its students to become an active force in shaping a better world.



Junior School (JA-J4)

We have expanded the program with a series of exciting activities such as **Artificial Intelligence Adventurers, United Nations Focus, Arts & Engineering Creator's Club** as well as **computer programming**. The program includes a series of classes that promote the foundation of **Healthy Financial Habits, Entrepreneurship**, as well as a series of **Architectural Design and Graphics Design, Film Making, Leadership, Debate & Public Speaking** and **Soft Skills** courses. These courses are designed to give the students the skills they need to maximize their potential. The program also includes a series of enrichment activities such as **Writopia Workshops, Chess instruction, Clay Design, Garden Club...** Below are brief descriptions of additional activities for the Junior School:

The Artificial Intelligence Adventurers

No programming experience required!

In this exciting new development, the students come together to explore the foundational logic of artificial intelligence. Through a medley of affirming growth mindset exercises, creative paper-based coding, fun block-based programming, and



project-based team hack-a-thons, to cultivate the computational and algorithmic thinking to create confidently. The concepts like events, loops, conditionals, variables, and functions within a variety of puzzles, riddles, and activities are embedded to make coding fun!

The program will take place during the 1st & 2nd semester (fall 2023 and spring 2024), in the after school program. We expect that students enrolled in fall will continue in the spring to build a socially-impactful project. To participate in the spring program students must also participate in fall.

This class is taught by Stanford & MIT AI researchers, they emphasize ethical responsibility, career paths in artificial intelligence, and interdisciplinary applications! From beginner to advanced coders, they envision a future where students of all backgrounds can contribute towards a bright future of inclusivity and technological advancement.

UN Focus:

This interactive course will engage the students with the values included in the United Nations Declaration of Human Rights, the leadership traits required to be a positive example, the basic history and objectives of the United Nations, the purpose of the sustainable development goals, and the brilliance and diversity of the cultures that make the United Nations unique.

Students will learn about different cultures, ways the international community cooperates to bring and sustain peace, and what they can do to create a better world.

Paper Engineering

In this class the students learn the techniques and the skills to create and explore engineering challenges. They build a cardboard rocket - A track for a marble run - A mask... They learn how to make folded prisms, cylinders, tracks, fringes, cones, tents and more! The students have the opportunity to learn by experimenting and honing their scissor, folding, and taping skills. The students will bring home their creations!

Junior Architects

This class is designed to inspire kids to create, build, and learn through various design challenges. With the use of different types of media young architects will draw architectural sketches, build bridges and furniture, create a 3D model of their dream house, design street facades, parks and even cities!

The students will learn about architectural composition, visual and spatial thinking, scale, balance and much more.

Acting Workshop

This class exposes the students to character development, plot structure, ensemble acting, creativity, the art of listening and following directions all through the use of various theater games. This workshop provides the children with many skills that will serve them throughout life. Rehearsing lines and movements improve memory. Performing in front of an audience boosts self-confidence. The confidence gained from learning performing arts skills applies to school, career, and life.

Creator's Club: Art and Engineering:

In this class, young creators will explore their artistic and engineering capabilities. They will learn about the engineering design process to create houses, animal habitats, obstacle courses, and much more! They'll use their creative skill sets to learn color theory, collaboration, and much much more. This class will focus on taking topics students are interested in: architecture, natural science, engineering, and more, and empowering them to design their own projects within these topics. Students will come away from this class with the confidence to apply engineering principles to their daily lives and design engineering projects for years to come.

Moreover, they'll understand the impact their own creativity has on any machine they'll design

Computer Programming

This course will start by discussing the basics of computer programming, what it is, what it can do, and what it was built on. Then we will start experimenting with block-based programming languages. Students will learn the basics of computer architecture, binary code, compilers, and algorithms. By the end of the course students will be able to produce small programs of their own.

Graphics Design

In this class, young artists will learn the power of digital design in this introduction to graphic design. Through a variety of platforms, students will explore how their visual art skills transfer to digital tools and will leave class excited to continue creating. Students will be challenged to find new modes of expression and storytelling and will create projects such as mood boards, animations, storyboards, and more! Your student will leave this class with new modes of self-expression and confidence with digital platforms that will open doors for the rest of their lives.

Mighty Mechanics

Students who love building will love this class! They will use mechanical engineering principles to create exciting machines that solve real world problems. From a hydraulic grabber hand to a crash test car, students will explore the many ways to create motion and power from familiar materials such as rubber bands, propellers, hydraulic syringes,

and more. Students will learn Newton's laws of motion, principles of energy transfer, the science behind hydraulics, and will grow their collaboration skills by working together to solve design challenges and use their machines. Students will come away from this class with confidence in their ability to independently work through the engineering design process and with many exciting machines that they've built!

Future Entrepreneurs and Innovators

In this course, students will learn about the entrepreneur's journey along with helpful skills and tools that will set them up for success. They will dream up their business ideas and discover what it takes to bring these ideas to life. Moreover, they will practice collaboration, teamwork, and learn about the importance of dividing up project tasks. Students will leverage graphic design tools to build their brands, develop promotional websites, and use digital design, coding, and 3D modeling software to bring their products to life. They will also all pitch to the class in our own little Shark Tank!

Garden Club

Garden Club provides the students with a series of fun and interactive activities and a wonderful way to reconnect to nature. The students learn where their food comes from, the importance of eating fruits and veggies and how to grow their own food.



Middle School (M1-M4)

We have expanded the program with a series of exciting activities:

Artificial Intelligence Pioneers:

In this AI program, the emerging engineers learn how to create projects for social good with Python programming language. Through hands-on coding, the students learn how computers can use data to solve complex problems like natural language processing and computer vision. The students will explore the ways they can meaningfully use AI to predict heart disease, create social robots, assist with disaster relief, and navigate autonomous vehicles.

The students learn to program AI in Python and Run Dexter. They will apply algorithms to real-world datasets, discuss AI ethics and careers, and build interactive web apps to deploy their machine learning models.

This class is taught by Stanford & MIT AI researchers, they emphasize ethical responsibility, career paths in artificial intelligence, and interdisciplinary applications! From beginner to advanced coders, they envision a future where students of all backgrounds can contribute towards a bright future of inclusivity and technological advancement.



The program will take place during the 1st & 2nd semester (fall 2023 and spring 2024), in the after school program. We expect that students enrolled in fall will continue in the spring to build a socially-impactful project. To participate in the spring program students must also participate in fall.

Molecular Biology

This course explores the principles and methods geneticists use every day to explore these possibilities, covering concepts taught in an introductory college genetics course. The students will review basic concepts of heredity, then delve into more complex concepts such as polygenic inheritance and sex-linked traits. They will study the genetics of relatively simple organisms such as bacteria and how they are used in current genetic research, and consider the genetics of more complex organisms, including humans. They will also explore the effects of mutations, including the genetic basis of cancer and inherited disorders, and how they increase variation within a population. In the laboratory, the students will go beyond basic techniques of DNA extraction, digestion, and amplification to perform bacterial cloning and dihybrid crosses, observing inherited phenotypes in a descendent generation. Along the way, guided by your instructor, they will learn to debate controversial topics in the field like stem cell research and genetically modified foods.

Microbiology

Today's 3D microscopes that can capture the nerve connections in a brain are a far cry from the magnifying lenses ground by hand in the 13th century. Yet both share a place in scientists' fascination with the microscopic world.

In this course, the students will examine and compare living unicellular and multicellular organisms such as algae, elodea, rotifers, and paramecia, and learn to differentiate between bacterial, animal, and plant cells. They will get comfortable doing laboratory tasks like staining, preparing wet mounts, extracting DNA, inoculation, building models, and writing lab reports while examining atoms and larger molecules, and exploring the various ways microscopes are used in fields like pathology, microbiology, and forensic science. They will learn to think and do research like a real scientist and gain an introduction to high school biology along the way. This workshop is offered to M3-M4 students.

Bulls & Bears/ Stock Market:

In this series of classes, the students learn investing fundamentals and how you can start investing at a young age! Build your own \$100,000 stock portfolio and trade stocks like Apple, Nike or Amazon with a cool investing simulation tool. This hands-on experience empowers students with the tools and mindset to face future investment decisions with confidence and buy low, sell high! A solid foundation for successful future investors!



Money Matters:

The Money Matters class is built to help students manage their personal finances, from building credit and loan applications to interest rates and investing strategies. This class will cover the basics of financial health, savings, spending habits, and budgeting. After learning how to store, track, and spend responsibly, students learn about risk management, APRs, and tax preparation. This class will use real-life examples and teach students how to set, and achieve, financial goals.

Future Entrepreneurs & Innovators

In this course, students will learn about the entrepreneur's journey along with helpful skills and tools that will set them up for success. They will dream up their business ideas and discover what it takes to bring these ideas to life. Moreover, they will practice collaboration, teamwork, and learn about the importance of dividing up project tasks. Students will leverage graphic design tools to build their brands, develop promotional websites, and use digital design, coding, and 3D modeling software to bring their products to life. They will also all pitch to the class in our own little Shark Tank!

The After-School Program continues with:

Model UN

This after school program is a simulation of the United Nations. The parliamentary debate structured from Model UN will give the students the opportunity to present and debate topics they are passionate about and learn to advocate for a better world. They will learn to draft and present position papers, draft resolutions and negotiate to rally support for their legislation. This program is an excellent way for students to learn how to delegate, collaborate, resolve conflict and advocate for a better world.

Model Congress

In this class, the students learn about the electoral process, lobby for issues they are passionate about, draft and deliver bills, amend legislation, debate about international policy and learn how to effectively represent a constituent body of their choosing.

Philosophy

This course guides the students to analyze ethical dilemmas through civil debate. This course covers Libertarianism, Utilitarianism, Kantian Ethics, and the idea of Justice as presented by John Rawls. This class aims to teach students how to discuss ethical quandaries from different philosophical perspectives.

Parliamentary Debate and Public Speaking

The objective of this program is to prepare students for the myriad situations both in and out of academia that require formal and informal presentations. The students will learn how to craft and present arguments, opinions and ideas. They will learn the

fundamentals of rhetoric and will practice informing, persuading and motivating an audience in a variety of ways. The MS students registered in “Competitive Debate and Public Speaking” may participate in the **English Speaking Union Middle School Debate Program**, an educational initiative in partnership with Claremont McKenna University and the support from the National Endowment for the Humanities. The program is to help the students develop critical thinking and language arts skills through public speaking. The program also includes a series of classes that promote the foundation of **Entrepreneurship...** and what it takes to launch a business and run a business as the CEO, as well as, a series of **Chess** instruction and more...

Music Production

In this class the students explore the world of digital music and sound editing. They will create a variety of projects including making their own ringtone, and several songs with and without lyrics. The class includes a professional microphone for recording, and a subscription to the web-based music production program.

Exploring Photography

Explore the world around you through the lens of a camera! In this interactive course, children will learn to utilize both automatic and manual DSLR cameras, while practicing various still photography techniques. Each class focuses on a specific fun activity or challenge, which may include: exploring outdoor photography, using light boxes and graphic design programs to create an ad for something they love, taking photos of their friends in the CK indoor studio, long exposure photography, and much more! Creativity and technology come together in this class for a truly fun learning experience.

Filmmaking that inspires

In this class students learn to capture brief videos that share important and inspiring messages with the world, analyze movements from other young activists that have impacted their communities and use these platforms to advocate for a better world.



High School (T1-T4)

The following activities are offered to high school students.

Artificial Intelligence Scholars

Ever wonder how self-driving cars work? Or if chatbots will be able to hold human-like conversations? Why does facial recognition incorrectly identify people of color and how can we stop it? How can AI be leveraged to tackle some of today's biggest issues



including climate change and social justice? What if we told you that you could learn the answers to these questions and more—all without having programming experience?

This class is taught by Stanford & MIT AI researchers, they emphasize ethical responsibility, career paths in artificial intelligence, and interdisciplinary applications! From beginner to advanced coders, they envision a future where students of all backgrounds can contribute towards a bright future of inclusivity and technological advancement.

The program will take place during the 1st & 2nd semester (fall 2023 and spring 2024), in the after school program. We expect that students enrolled in fall will continue in the spring to build a socially-impactful project. To participate in the spring program students must also participate in fall.

Forensic Science

In this course, students will uncover the answers to numerous types of questions behind forensic investigation. How can an abandoned car, devoid of license plates, help detectives solve a jewel heist?

How can a single strand of hair keep a man from going to jail for murder?

After reviewing the scientific skills of observation and deduction, they will learn techniques forensic scientists use to analyze hair, fibers, fingerprints, impressions, and documents while processing a crime scene.

The students and their classmates will explore blood-typing and spatter patterns, toxicology, and DNA analysis. Through the study of notorious cases, such as the Lindbergh baby kidnapping and the assassination of John F. Kennedy, they will become familiar with the history of forensic science and advances in the field. And in mock investigations, they will use their newly acquired analytical techniques to uncover clues, examine evidence, draw conclusions, and crack cases.

Molecular Biology

This course explores the principles and methods geneticists use every day to explore these possibilities, covering concepts taught in an introductory college genetics course. The students will review basic concepts of heredity, then delve into more complex concepts such as polygenic inheritance and sex-linked traits. They will study the genetics of relatively simple organisms such as bacteria and how they are used in current genetic research, and consider the genetics of more complex organisms, including humans. They will also explore the effects of mutations, including the genetic basis of cancer and inherited disorders, and how they increase variation within a population. In the laboratory, the students will go beyond basic techniques of DNA extraction, digestion, and amplification to perform bacterial cloning and dihybrid crosses, observing inherited phenotypes in a descendent generation. Along the way, guided by your instructor, they

will learn to debate controversial topics in the field like stem cell research and genetically modified foods.

Microbiology

Today's 3D microscopes that can capture the nerve connections in a brain are a far cry from the magnifying lenses ground by hand in the 13th century. Yet both share a place in scientists' fascination with the microscopic world.

In this course, the students will examine and compare living unicellular and multicellular organisms such as algae, elodea, rotifers, and paramecia, and learn to differentiate between bacterial, animal, and plant cells. They will get comfortable doing laboratory tasks like staining, preparing wet mounts, extracting DNA, inoculation, building models, and writing lab reports while examining atoms and larger molecules, and exploring the various ways microscopes are used in fields like pathology, microbiology, and forensic science. They will learn to think and do research like a real scientist and gain an introduction to high school biology along the way. The workshop is offered to M3-M4 students.

Model Congress

In these workshops the students learn about the electoral process, lobby for issues they are passionate about, draft and deliver bills, amend legislation, debate about international policy and learn how to effectively represent a constituent body of their choosing. The materials from The Constitutional Rights Foundation, ICivics (founded by Justice Sandra Day O'Connor) and the National Model U.S. Congress are used in classes. These resources have been proven to improve students' civic knowledge, presentation and core literacy skills.

New research has also shown that the use of the aforementioned materials has also led to increased participation in the democratic process. The objective in this course is to educate the next generation, nurture and inculcate a passion for civics and history and encourage young people to advocate for themselves.

Debate Workshops

The objective of this program is to prepare students for the myriad situations that require formal and informal presentations.

Students will learn to craft and present arguments and inform, persuade and motivate an audience in a variety of ways. The grading rubric was adapted with the permission of Neil Mercer, the Director of research and Head of Faculty at The University of Cambridge.

This course includes:

- The Impromptu Speech
- The Informative Speech
- The Persuasive Speech
- Parliamentary Debate

The program is focused on social skills, public speaking and presentation, and it was developed in conjunction with The University of Cambridge.

Advanced Competitive Debate: Practice & Preparation

This class is for more seasoned competitive debaters that wish to focus solely on preparing and practicing for the upcoming debate tournaments. It will focus on more advanced debate techniques, such as persuasive openings, sustainable counter plans, solvency, calls to action, fulfilling the burden of proof and how to handle impromptu challenging situations in a competitive debate environment. This class is for debaters that wish to grow as competitive speakers. The High School students participating in “Competitive Debate and Public Speaking” may join the “**National High School Ethics Bowl**” tournament. This program promotes respectful, supportive, and in-depth discussion of ethics among high school students nationwide. The National High School Ethics Bowl was founded in 2012 as the product of a partnership with the Parr Center for Ethics at the University of North Carolina at Chapel Hill. This program engages high school students in intensive ethical inquiry. It fosters constructive dialogue and furthers the next generation’s ability to make sound ethical decisions.

Philosophy

The focus of the Philosophy class is to examine and understand the ideas behind the most popular philosophies embraced throughout the world. To do this, students examine ethical situations through the lens of these philosophies and engage in a Socratic style debate. Students are presented with an ethical question and they must identify stakeholders and players within the dilemma, discuss the key moral issues and present opposing viewpoints. The course is taught by Dedimus Potestatem.

Filmmaking

Young people all over the world have begun using social media platforms to amplify minority voices, educate people about social justice issues and share science, poetry, art, movement, culture and more. In this class students will learn to capture brief videos that share important and inspiring messages with the world, analyze movements from other young activists that have impacted their communities and use these platforms to advocate for a better world.



IMPORTANT INFORMATION:

After school activities are scheduled face-to-face. The program may move to virtual platforms at the school prerogative for students safety concerns.

- The activities start at 3:00PM or otherwise indicated
- All activities are subject to enrollment.
- Annual commitment is required for registration in language A classes /Mother Tongue Program. The placement of the students is at the discretion of the

teacher to preserve the integrity of the class. The acceptance of new/late registrations is contingent upon the approval of the teachers.

- 1st Semester registration confirmation will be sent by **September 15th**
- 2nd Semester registration confirmation will be sent by **January 19th**



Fee Structure – Time and Modality updates:

Registration Fees = \$675 / Late registration fee after deadline = \$25

- All activities are scheduled by semester:
1st Semester: October through January
2nd Semester: February through May



AFTER SCHOOL (JA-J4) - (M1-M4) - (T1-T4)

CARE (JA-J4) - (M1-M2)

The 1st Semester activities resume on Monday October 2, 2023

The 2nd Semester activities resume on Monday February 5, 2024

We will collect the registrations, and will send the confirmations.

CALENDAR - 1st Semester – Academic Year 2023/2024

(Subject to change)

Mondays:

October	2, 9, 16 ---, 30 (No class Oct. 23)
November	6, 13, 20, 27
December	4, 11
January	---, 8, ---, 22 (No class Jan.1 & 15)

Tuesdays

October	3, 10, 17 ---, 31 (No class Oct. 24)
November	7, 14, 21, 28
December	5, 12
January	9, 16

Wednesdays

October	4, 11, 18 --- (No class Oct. 25)
November	1, 8, ---, ---, 29 (No classes Nov. 15 & 22)
December	6, 13
January	3, 10, 17, 24

Thursdays

October	5, 12, 19 --- (No class Oct. 26)
November	2, 9, ---, ---, 30 (No class Nov. 16 & 23)
December	7, 14
January	4, 11, 18, 25

Fridays

October	6, 13, 20, --- (No class Oct. 27)
November	3, 10, ---, --- (No classes Nov. 17 & 24)
December	1, 8, 15
January	5, 12, 19, 26



2nd Semester – Academic Year 2023/2024

Mondays:

February	5, 12, ---, 26 (No class Feb. 19)
March	4, 11, 18, 25
April	---, --, 15, 22, 29 (No class Apr. 1 & 8)
May	6, 13

Tuesdays

February	6, 13, ---, 27 (No class Feb. 20)
March	5, 12, 19, 26
April	---, ---, 16, 23, 30 (No class Apr. 2 & 9)
May	7, 14

Wednesdays

February	7, 14, ---, 28 (No class Feb. 21)
March	6, 13, 20 --- (No classes Mar. 27)
April	---, ---, 17, 24 (No class Apr. 3 & 10)
May	1, 8, 15, 22



Thursdays

February ---, 8, 15, ---, 29 (No class Feb. 1 & 22)
March 7, 14, 21, --- (No classes Mar. 28)
April ---, ---, 18, 25 (No class Apr. 4 & 11)
May 2, 9, 16, 23

Fridays

February 9, 16, --- (No class Feb. 23)
March 1, 8, 15, 22 --- (No class Mar. 29)
April ---, ---, 19, 26, (No classes Apr 5 & 12)
May 3, 10, 17, ---, 31 (No class May 24)

Please do not hesitate to contact me if you have any questions.

Dr. Lidana Jalilvand | Director of Special Programs
ljililvand@unis.org | +1 212-584-3083 Ext: 3083