

Mt. SAC College for Kids Program

Summer 2022 – On-campus & Online

SESSION I – MONDAY - THURSDAY / JUNE 13 - JUNE 30 (on-campus) \$170 per class		
<i>On-campus Courses</i>	<i>Time</i>	<i>Grades</i>
Healthy Cooking for Kids*	8:00 - 9:45	3rd-5th
Robotics for Kids - Part I*	8:00 - 9:45	3rd-5th
Digital Animation*	10:00 - 11:45	3rd-5th
You're the Investigator: A CSI Adventure*	10:00 - 11:45	3rd-5th
Digital Animation*	8:00 - 9:45	6th-8th
Introduction to Meteorology for Kids*	8:00 - 9:45	6th-8th
Healthy Cooking for Kids*	10:00 - 11:45	6th-8th
Robotics for Kids*	10:00 - 11:45	6th-8th
SESSION I – MONDAY - THURSDAY / JUNE 13 - JUNE 30 (online) \$90 per class		
<i>Online Courses</i>	<i>Time</i>	<i>Grades</i>
Gold Rush Geometry	1:00 - 2:00	4th-5th
You're the Investigator: A CSI Adventure	1:00 - 2:00	3rd-5th
Engineering for the Young Einstein: Build a Bridge, Rollercoaster, and Test Soundwaves	2:15 - 3:15	3rd-5th
Opinion Writing	2:15 - 3:15	4th-5th
Read, Think, Write: Response to Fiction and Non-fiction Text	2:15 - 3:15	3rd-5th
Memoir Writing	3:30 - 4:30	5th-6th
Writing: An Exploration of Genres	3:30 - 4:30	3rd-5th
Creative Writing: Poetry, Spoken Word and Storytelling	1:00 - 2:00	6th-8th
Exploring the Cosmos: Introduction to Astronomy	1:00 - 2:00	6th-8th
Creative Writing: Bring Your Story to Life	2:15 - 3:15	6th-8th
You're the Investigator: A CSI Adventure	2:15 - 3:15	6th-8th
Exploring Art Principles	2:15 - 3:15	6th-8th
Accelerated Coding with Scratch	3:30 - 4:30	6th-8th
Going Green: Sustainable Science at Home	3:30 - 4:30	6th-8th
The Amazing RACE: A Writing Strategy	3:30 - 4:30	6th-8th
SESSION II – MONDAY - THURSDAY / JULY 5 – JULY 21 (on-campus) \$170 per class		
<i>On-campus Courses</i>	<i>Time</i>	<i>Grades</i>
Exploring Art Principles*	8:00 - 9:45	3rd-5th
Graphic Design*	8:00 - 9:45	3rd-5th
Introduction to Meteorology for Kids*	8:00 - 9:45	3rd-5th
Healthy Cooking for Kids*	10:00 - 11:45	3rd-5th
Robotics for Kids - Part II*	10:00 - 11:45	3rd-5th
Math Foundations	10:00 - 11:45	3rd-5th
3D Printing for Kids*	8:00 - 9:45	6th-8th
Healthy Cooking for Kids*	8:00 - 9:45	6th-8th
Graphic Design *	10:00 - 11:45	6th-8th
Introduction to Video & Audio Production for Kids	10:00 - 11:45	6th-8th
You're the Investigator: A CSI Adventure*	10:00 - 11:45	6th-8th
SESSION II – MONDAY - THURSDAY / JULY 5 – JULY 21 (online) \$90 per class		
<i>Online Courses</i>	<i>Time</i>	<i>Grades</i>
Probability Games: Probability, Data and Graphs	1:00 - 2:00	3rd-5th
You're the Investigator: A CSI Adventure	1:00 - 2:00	3rd-5th
Creative Writing: Poetry, Spoken Word and Storytelling	2:15 - 3:15	3rd-5th
Engineering for the Young Einstein: Build a Bridge, Rollercoaster, and Test Soundwaves	2:15 - 3:15	3rd-5th
Drawing through Math: Geometry & Coordinates	3:30 - 4:30	3rd-5th
Creative Writing: Poetry, Spoken Word and Storytelling	1:00 - 2:00	6th-8th
Going Green: Sustainable Science at Home	1:00 - 2:00	6th-8th
Exploring the Cosmos: Introduction to Astronomy	2:15 - 3:15	6th-8th
Persuasive Writing	2:15 - 3:15	6th-8th
Writing: An Exploration of Genres	3:30 - 4:30	6th-8th

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COURSE DESCRIPTIONS

3D Printing for Kids*

Oscar Arias

6th-8th grade (II)

\$170 on-campus/\$15 materials fee*

3D Printing for Kids is an exciting hands-on introduction to the world of Plastics. Students learn the basics of how a 3D printer works and how to make basic models. In small groups, students will be using computers to create 3D models and print them. No previous experience is necessary, all skill levels are welcome to participate but having a basic understanding of how to navigate a computer will help as you attend the course. If you want a fun challenge, this class is for you!

Student Learning Outcomes:

Upon completion students will:

- Develop team building skills as participants engage in every project
- Learn and understand the basics of 3d printing
- Understand basic modeling techniques
- Develop valuable learning experiences and apply them to their own projects for future projects

Accelerated Coding with Scratch

Kathy Tat-Chung

6th-8th grade (I)

\$90 online/Google Classroom

This course suits mostly for beginners and is designed for students who have little programming/coding knowledge. In this Accelerated Scratch Coding, we will cover the more complex coding concepts in Scratch, such as functions and lists, while continuing to explore all the cool features Scratch has to offer. Students will work on writing and animating their own projects using animations, games, and storytelling. Our goal in this class is to focus on creativity, critical thinking, problem-solving, and fun!

Student Learning Outcomes:

Upon completion students will:

- Use a variety of age-appropriate technologies to communicate and exchange ideas
- Create projects that use coding and various forms of graphic, audio to communicate ideas
- Create their own interactive games, stories, and animations

Creative Writing: Bring Your Story to Life

Kathy Tat-Chung

6th-8th grade (I)

\$90 online/Google Classroom

In this creative writing class, students will learn the key elements of creative writing: character, setting, problem/action and solution. In addition, they will learn to engage in their imagination and express their feelings. It is designed to help students foster their creative writing skills by clarifying their own ideas, beliefs and discovering what they know and think about a topic.

Student Learning Outcomes:

Upon completion students will:

- Write a 3-5 paragraphs narrative of real or imagined events
- Outline the basic structure of essay writing by identifying the introduction, body, and conclusion paragraphs
- Use descriptive dialogues to make their story come alive

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Creative Writing: Poetry, Spoken Word, and Storytelling

Samantha Herrera

3rd-5th grade (II) & 6th-8th grade (I) (II)

\$90 online/Google Classroom

In this course, students will explore out of the box creative writing such as poetry, spoken word, and in storytelling. This course will be designed to teach students that though there is writing in the traditional sense (i.e. Shakespeare, E.E. Cummings, Emily Dickens) that fixate on structure, being exposed to new and modern writing styles such a spoken word poetry can increase skills in description and creativity in writing. The social emotional learning aspect of this course will give students healthy ways to identify their feelings and adopt new coping mechanisms.

Student Learning Outcomes:

Upon completion students will:

- Identify poetry structures, work alongside them as well as work against them in an out of the box manner
- Hone in on their writing skills and self-expression as it relates to ELA standards

Digital Animation*

Jessica Wu

3rd-5th grade (I) & 6th-8th grade (I)

\$170 on-campus/\$6 materials fee*

This class will take a look at the tools and software used for animation, and the basics of animation. Students will first learn traditional, hand-drawn animation during the first half of the session, and then digital animation in the second half. During the second half, students will be introduced to programs used in the industry, as well as different techniques on how to animate. 3rd and 5th graders will have a lighter version that teaches more fundamentals while 6th and 8th graders will have a bit more complexity to challenge students.

Student Learning Outcomes:

Upon completion students will:

- Demonstrate visual communication techniques through the use of industry-standard programs
- Display the ability to use text and pictures through assignments

Drawing through Math: Geometry & Coordinates

Mariah Cheng

3rd-5th grade (II)

\$90 online/Google Classroom

Using paper graphs and online graphing counterparts, students will review geometric concepts and move into graphic coordinates on the (x, y) axis. From lines and line segments to butterflies and animals, this class will be engaging and challenging at the same time. This will be conducted using Google Meets and Google Classroom.

Student Learning Outcomes:

Upon completion students will:

- Review geometric concepts and graphic coordinates

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Engineering for the Young Einstein: Build a Bridge, Rollercoaster, and Test Soundwaves **Paul Pasa**

3rd-5th grade (I) (II)

\$90 online/Zoom

In this exciting online course, students will be exploring several aspects of Physics. During these activities, students will explore the applications of the Scientific Method to understand potential, kinetic energy, momentum, and types of sound waves. Students will study potential and kinetic energy as we construct our own roller coaster. We will also hear and see the physics of sound as we “surf” these waves to understand how they work!

Student Learning Outcomes:

Upon completion students will:

- Develop valuable critical thinking skills in which they will be able to gather, organize, and analyze data from various sources and apply that to their own projects
- Use models to test interactions concerning the functioning of scientific systems
- Understand the interaction of potential and kinetic energy, as well as momentum
- Build a bridge using popsicle sticks, a paper roller coaster
- Construct a phone to listen to sound waves

Exploring Art Principles*

Steven Jimenez

3rd-5th grade (II)

\$170 on-campus/\$5 materials fee*

6th-8th grade (I)

\$90 online/Google Classroom

This online art experience will utilize various sources and mediums to focus on developing principle art skills with students while exploring the history and context of famous works. This class will encourage independent creative practice as the instructor models art work to the students in class. No prior experience will be required for this class and all skill levels are welcome to participate. Students will be expected to have general introductory art supplies to participate in the course.

Student Learning Outcomes:

Upon completion students will:

- Share ideas for media artworks through guided exploration of tools, methods, and imagining.
- Express and share ideas for media artworks through sketching and modeling.
- Integrate aesthetic principles with a variety of generative methods to fluently form original ideas, solutions, and innovations in media arts creation processes.
- Form ideas into plans or models for media arts productions.
- Create, capture, and assemble media arts content for media arts productions, identifying basic aesthetic principles, such as pattern and repetition.

Exploring the Cosmos: An Introduction to Astronomy

Steven Jimenez

6th-8th grade (II)

\$90 online/Google Classroom

This is an exciting time to look up and discover what comprises our night sky and beyond. On December 25, 2021 NASA launched the James Webb observatory to gain insight into the first galaxies that formed in our universe, discover more about our own solar system, and explore solar systems and exoplanets beyond our own! This introductory course will follow the progress of the James Webb Observatory as well as discuss foundational astronomy skills, compare present and past NASA missions, and conduct simple experiments with at home materials. This will be an introductory course and no prior astronomy

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experience is needed. Similarly, at home experiments will consist of readily sourced materials from home with very little purchases necessary to participate. Experiments will be provided for student engagement and enjoyment; therefore, no students will be penalized for lack of materials.

Student Learning Outcomes:

Upon completion students will:

- Review foundational astronomy skills
- Compare present and past NASA missions
- Conduct simple experiments as it relates to the course

Going Green!: Sustainable Science at Home

Steven Jimenez

6th-8th grade (II)

\$90 online/Google Classroom

Our environment provides nourishment and shelter and in today's environmental climate, eco-innovation and education are more crucial than ever. In this course students will learn about eco-consciousness, environmental responsibility, and sustainability with easy at home accessible materials and experiments. Humanity and the environment are intertwined in many ways and this course will give students the chance to experience these eco-conscious opportunities first hand. No prior experience is necessary to participate in this course. Similarly, at home experiments will consist of readily sourced materials from home with very little purchases necessary to participate. Experiments will be provided for student engagement and enjoyment; therefore, no students will be penalized for lack of materials.

Student Learning Outcomes:

Upon completion students will:

- Learn how to be eco-conscious
- Understand environmental responsibility and sustainability

Gold Rush Geometry

Mariah Cheng

4th-5th grade (I)

\$90 online/Google Classroom

Students will use a Google Spreadsheet to create a Geometry-focused Gold Rush claim, tents, the American River, etc... while learning daily about different aspects of the California Gold Rush. This class will result in a stronger understanding of the events of the California Gold Rush while developing Google Spreadsheet skills as well. Together, students will relate a key California historical event while learning and reinforcing math concepts. Online, students will need a Google account while we use Google Classroom.

Student Learning Outcomes:

Upon completion students will:

- Understand area and perimeter
- Understand Basic Geometric shapes and angles
- Understand different life aspects of the Gold Rush
- Gain familiarity with google tools and spreadsheets

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Graphics Design*

Jessica Wu

3rd-5th grade (II) & 6th-8th grade (II)

\$170 on-campus/\$6 materials fee*

This class will take a look at the tools and software used for graphic design, and how to approach design from a digital point of view. We will also be covering organization of project files to optimize efficiency. Students will learn the essential elements of design. 3rd and 5th graders will have a lighter version that teaches more fundamentals while 6th and 8th graders will have a bit more complexity to challenge students.

Student Learning Outcomes:

Upon completion students will:

- Demonstrate visual communication techniques through the use of industry-standard programs.
- Display the ability to use text and pictures through assignments.

Healthy Cooking for Kids*

Rodolfo Gutierrez Espinoza & Angelica Velasco

3rd-5th grade (I) (II) & 6th-8th grade (I) (II)

\$170 on-campus/\$30 materials fee*

Students will enjoy a hands-on learning experience in Mt. SAC's Nutrition and Foods Laboratory Kitchen. Working in teams, students will complete recipes utilizing the kitchen's equipment. Students will prepare a wide range of fresh ingredients in order to produce healthy and flavorful dishes.

Student Learning Outcomes:

Upon completion students will:

- Demonstrate knowledge of principles of food preparation (recipe reading, ingredient identification/measuring, organization of cooking tasks) by successfully preparing course recipes
- Learn to safely prepare food by following kitchen safety and food sanitation guidelines
- Demonstrate ability to properly use kitchen tools and equipment by their application in food preparation
- Gain knowledge of various cooking techniques by the completion of course recipes.

Introduction to Video & Audio Production for Kids

Steven Jimenez

6th-8th grade (II)

\$170 on-campus

In this course, students will explore the world of audio and visual production. Using the Mac software suite, students will develop skills in producing their own audio projects, including podcasts and songs, and how to edit and manipulate the sonic qualities of each. Then, after exploring the sonic worlds, students will be introduced to video production skills and will create their own music videos and PSA's. Using the Mac software, students will learn how to make professional quality music video and audio productions. Students will also be introduced to studio gear and techniques used to record and produce aural works. No prior experience is necessary for this course and all skill levels are welcome to participate.

Student Learning Outcomes:

Upon completion students will:

- Learn to operate video cameras and audio equipment
- Create audio and visual productions (e.g., capturing, syncing, mixing)

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- Edit visual and audio creations.
- Demonstrate understanding of aesthetics related to shooting and editing both audio and visual works.

Introduction to Meteorology for Kids*

Samantha Herrera

3rd-5th grade (II) & 6th-8th grade (I)

\$170 on-campus/\$5 materials fee*

The class will explore the branch of science that describes the phenomena that is the weather, climate, and forecasting weather. Students will engage in hands-on experiments to recreate weather patterns, climate, and weather forecasting. Students will focus on basic types of severe weather and how they develop, the role of human activity on weather, how weather is observed and measured, as well as the processes that influence weather and climate.

Student Learning Outcomes:

Upon completion students will:

- Learn basic types of severe weather and how they develop
- Understand the role of human activity on weather
- Recognize how weather is observed and measured

Math Foundations

Mariah Cheng

3rd-5th grade (II)

\$170 on-campus

The class will give students the confidence to start the next school year with a stronger sense of adding and subtracting multi-digit numbers. Starting with concrete Manipulatives, moving to abstract manipulatives and a place value chart, students will be able to add and subtract multi-digit numbers with ease as they build a foundation for multiplication and fractions.

Student Learning Outcomes:

Upon completion students will:

- Use Base-10 Blocks (or print outs) and the Place Value Chart
- Develop a fluid way to understand and solve 3-digit numbers in addition and subtraction
- Have an understanding of “bundling” and “regrouping”

Memoir Writing

Mariah Cheng

4th-5th grade (I)

\$90 online/Google Classroom

This class is all about what memory stands out as special. By the end of this class, students will have a well-written, multi-paragraph paper. Students will examine figurative language and word choice to enhance the reader's experience. Students will also have a better understanding of making a thesis statement and supporting that statement with reasons why they believe in their experience means so much to them.

Student Learning Outcomes:

Upon completion students will:

- Write a multi-paragraph paper presenting their special memory;
- Learn about text organization and purposes of paragraphs;

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- Use Google Docs and become more familiar with inserting images

Opinion Writing

Mariah Cheng

4th-5th grade (I)

\$90 online/Google Classroom

This class is all about what you're passionate about and why it's the best! By the end of this class, students will have a well-written, multi-paragraph paper. We'll examine counter arguments as well. Students will also have a better understanding of making a thesis statement and supporting that statement with reasons why they believe in their opinion.

Student Learning Outcomes:

Upon completion students will:

- Write a multi-paragraph paper presenting their opinion and counter argument;
- Learn about text organization and purposes of paragraphs;
- Use Google Docs and become more familiar with inserting images

Persuasive Writing

Mariah Cheng

6th-8th grade (II)

\$90 online/Google Classroom

In this writing class, students will learn safe internet searches, learn research skills, and how to compose a coherent, well-written persuasive argument. They will create points and counter-arguments for their position as well. At the end of the class, students will present their writing to the class to hone their presentation skills. This will be conducted using Google Meets and Google Classroom.

Student Learning Outcomes:

Upon completion students will:

- Learn to conduct safe internet searches
- Develop research skills
- Compose a written persuasive argument
- Exercise their presentation skills

Probability Games: Probability, Data, and Graphs

Mariah Cheng

3rd-5th grade (II)

\$90 online/Google Classroom

Students will play probability games to learn the concepts, gather their own data with Google Forms, and create various graphical representations using Google Sheets. Learners will have a stronger understanding of these concepts, further preparing them for the next year of schooling. This will be conducted using Google Meets and Google Classroom.

Student Learning Outcomes:

Upon completion students will:

- Learn the concepts of probability games

Read, Think, Write: Response to Fiction and Non-fiction Text

Kathleen Pena

3rd-5th grade (I)

\$90 online/Google Classroom

Responding to text is the way a student reacts to something that has been read or listen to. In this course, students will learn to interact with the text, develop a deeper understanding and relate what

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they have read to their own personal experiences. Through this course students learn to construct meaning and strengthen reading comprehension. For this online class, students will need a private Gmail account to access a Google classroom link.

Student Learning Outcomes:

Upon completion students will:

- Read closely to determine what the text says explicitly and to make logical inferences from it
- Draw conclusions/opinions from the text supported by text evidence
- Be able to summarize the text, explain the author purpose and point of view and identify main events.

Robotics for Kids*

Oscar Arias

3rd-5th grade (I) (II) & 6th-8th grade (I)

\$170 on-campus/\$5 materials fee*

Robotics for Kids is an exciting hands-on introduction to Robotics. Students learn basic robotic construction, programming & teamwork skills. In small groups, students use building elements, motors, and microcontrollers to build metal robots. Students will build and program their robots to compete against their classmates in classroom robot competitions. No previous experience necessary, all skill levels are welcome to participate in this course as projects are oriented towards skill building and creativity rather than technical ability.

Student Learning Outcomes:

Upon completion students will:

- Develop team building skills as participants engage in every project
- Learn and understand the basic construction of a robot
- Understand basic robotics programming
- Develop valuable critical thinking skills in which they will be able to gather, organize, and analyze data from various sources and apply that to their own projects

The Amazing RACE: A Writing Strategy

Kathleen Pena

6th-8th grade (I)

\$90 online/Google Classroom

The RACE strategy is a method used to thoroughly answer an open ended text question. It is a simple writing strategy that can help students construct more thoughtful and rigorous responses to what they read. This course will teach students to become more sophisticated readers and writers while learning to draw inferences and summarize text.

Student Learning Outcomes:

Upon completion students will:

- Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text
- Determine the main idea of a text and explain how it is supported by key details; summarize the text
- Compare and contrast their own point of view from that of the author of a text.

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Writing : An Exploration of Genres

Samantha Herrera

3rd-5th grade (I) & 6th-8th grade (II)

\$90 online/Google Classroom

In this course, students will explore various genres and engage in both large and small group settings to learn about different writing styles and types of genres authors write in. Students will learn to create discussion on genres and read snippets of stories to compare and contrast to other books.

Student Learning Outcomes:

Upon completion students will:

- Become familiar with identifying genre, analyzing it, and putting this knowledge into practice as it translates to ELA common core standards

You're the Investigator: A CSI Adventure*

3rd-5th grade (I) (II)

\$90 online/Zoom Paul Pasa

3rd-5th grade (I) & 6th-8th grade (II)

\$170 on-campus/\$5 materials fee Samantha Herrera

Students in this course will be examining fingerprints, fabric, toxicology, and hair samples as they enter the world of forensic science. Students will utilize critical thinking as they learn about the tools of a CSI Forensic Investigator, including fingerprinting techniques, DNA analysis, handwriting analysis, and ink chromatography.

Student Learning Outcomes:

Upon completion students will:

- Construct arguments with evidence, data, and/or a model from activities
- Use models to test interactions concerning the functioning of scientific systems.
- Use evidence in constructing explanations that specify variables that describe and predict phenomena and in designing multiple solutions to investigative