



2023 Summer Residential Programs Course Catalogue



» Overview



'Iolani Summer Residential Programs' holistic approach offers students 12 to 16 years old the opportunity to engage in hands-on learning through enrichment classes, extracurricular activities and exciting field trips around O'ahu. Regardless of the selected program, students will participate in daily leisure activities and excursions, with special events planned every weekend!

'Iolani provides students with the opportunity to immerse themselves in the local culture on and off campus. In addition to a learning environment that takes advantage of the tremendous resources on campus, our enrichment programs utilize the school's geographic location in Honolulu to create unique opportunities for personal growth and development through exposure to Hawai'i's unique natural environment, culture, and local attractions and events. The goal of each program is to provide a balanced schedule of academic pursuits and extracurricular activities.

Daily Schedule

Rising	7:00 a.m.
Breakfast	7:30 a.m.-7:50 a.m.
Period 1	8:00 a.m.-10:00 a.m.
Morning Break	10:00 a.m.-10:20 a.m.
Period 2	10:30 a.m.-12:30 p.m.
Lunch	12:40 p.m.-1:00 p.m.
Period 3	1:15 p.m.-3:15 p.m.
Dorm Check-in & Rest	3:30 p.m.-4:30 p.m.
Study Hall/Afternoon Activities	4:30 p.m.-5:30 p.m.
Dinner	6:15 p.m.-6:45 p.m.
Evening Programming	7:00 p.m.-8:30 p.m.
Dorm Check-in	8:45 p.m.
Room Inspection	9:00 p.m.
Lights Out	10:00 p.m.-10:30 p.m.

Program Dates

6-Week Session:
June 12, 2023 to July 21, 2023

First 3-Week Session:
June 12, 2023 to June 30, 2023

Second 3-Week Session:
July 2, 2023 to July 21, 2023

» How to Choose & Register for Courses

After you complete the online application and are enrolled, you will have access to the “Course Preference” form on which you can express your course preferences. Our Summer Residential Programs office will assist you in registering for classes and will help to accommodate your preferences as best as possible. Enrolling and choosing course preferences by March 15 will help to give the best chances for desired course placement. All students will be placed in courses no matter when they are enrolled.

Steps to Register for Summer Courses:

1. Read this Course Catalogue carefully and note your preferred course choices.*
2. Once enrolled, access the form “Course Preference” and indicate your preferred choices.
3. Summer Residential Programs office will note your choices and work on your behalf to register for courses. We will do everything we can to accommodate your preferences.
4. Once courses are assigned, you will receive an email confirmation.

**Please read each of the course descriptions, paying particular attention to when each course is available, and to which grade levels each course is available. Choose courses for the grade level your child will be entering in the fall. Note that some courses are available in each period for both sessions and others are only available in one period in session one or two but not both. Other courses are only available to students attending for six weeks.*

If you need further assistance, please contact our Summer Residential Programs administrative office at summerreslife@iolani.org or 1-808-943-2231 during Hawai'i standard office hours.

About Special Programs Office (SPO)

With the exception of five courses offered exclusively to students in Summer Residential Programs, courses are managed by the 'Iolani Special Programs Office (SPO), a separate team from Summer Residential Programs. These courses are for local students as well as Summer Residential Program students based upon availability. Each summer there are well over 1,000 day students attending classes and courses fill quickly. A waitlist process will be available.



Five Courses Exclusive to Summer Residential Programs

We are pleased to offer five classes for our Session 1 and Session 2 Summer Residential Program students.

- Marine Science
- Food for Thought
- Secondary School Admission Test (SSAT) Prep
- Hawaiian Culture
- Island Adventures

Course descriptions can be found on subsequent pages.

Example Preferences

(Grade 7 student attending Session One):

Period 1:

- Choice 1 – Marine Science
- Choice 2 – SSAT Prep
- Choice 3 – Surface Application & Design
- Choice 4 – Intro to Laser Cutting

Period 2:

- Choice 1 – Food for Thought
- Choice 2 – Hawaiian Culture
- Choice 3 – Just Type It!
- Choice 4 – Welcome to Robotics

Period 3:

- Choice 1 – Island Adventures
- Choice 2 – Rock Band

» 2023 Course Overview

Course	Period 1	Period 2	Period 3	6W	S1	S2	7	8	9	10	11	12
RESIDENTIAL PROGRAM (EXCLUSIVE TO DORMITORY STUDENTS)												
Marine Science	•	•			•	•	•	•	•	•		
Food For Thought	•	•			•	•	•	•	•	•		
Secondary School Admission Test (SSAT) Prep	•	•			•	•	•	•	•	•		
Hawaiian Culture		•			•	•	•	•	•	•		
Island Adventures*			•	•	•	•	•	•	•	•		
ART												
Surface Application and Design	•	•	•		•	•	•	•				
The Art of Bullet Journaling			•		•	•	•	•	•	•	•	•
Ceramics*			•		•	•			•	•	•	•
ENGLISH												
Written Expression	•	•			•	•	•	•				
Writing Sense	•	•			•	•	•	•	•			
Personal Essay Writing Workshop		•			•	•				•	•	•
Write Right! 10-12	•	•		•						•	•	•
MATHEMATICS												
Pre-Algebra Prep	•	•		•			•	•				
Mathtastic Games Galore		•	•		•	•	•	•	•			
Show Me the Money	•	•			•		•	•	•			
Pre-Algebra Review	•	•		•			•	•				
Algebra 1 Review	•	•		•					•	•		
PERFORMING ARTS												
Rock Band		•	•		•	•	•	•	•	•	•	•
Intro to Improv*			•		•	•	•	•	•	•	•	•
Hip Hop*			•		•	•	•	•	•	•	•	•
PHYSICAL EDUCATION AND SPORTS												
Fun Fitness*			•		•	•	•	•	•			
STUDY AND LIFE SKILLS												
Japanese Language Basics	•			•			•	•	•			
Let's Learn Japanese		•			•	•	•	•	•			
Conversational Chinese	•	•			•	•	•	•	•			
ʻŌlelo Hawaiʻi	•				•	•	•	•	•			
Our Ahupua`a		•			•	•	•	•	•			
Gods, Monsters, and Heroes		•	•		•		•	•	•			
Just Type It!	•	•			•	•	•	•	•	•	•	•
Entrepreneurship 101		•				•			•	•	•	•
SAT & ACT Prep	•			•						•	•	•
SAT Prep		•			•	•				•	•	•
21ST CENTURY TOOLBOX												
Intro to Laser Cutting	•	•			•	•	•	•	•			
Mission to Mars		•	•			•	•	•	•			
Welcome 2 Robotics	•	•			•	•	•	•	•			
Biomimicry: Sustainable Design & Innovation			•		•	•	•	•	•			
Introduction to Graphic Design		•				•	•	•	•			
Programming in Python: The Snake That Doesn't Bite			•			•	•	•	•	•	•	•
Think Like an Inventor		•			•	•			•	•	•	•
Pathways to Community Leadership		•				•			•	•	•	•
New Sport for Health + Fun			•		•	•			•	•	•	•

Students should enroll in either Session 1 OR Session 2 courses, unless indicated with * where they may enroll in BOTH sessions

» Course Descriptions

Five Courses for Summer Residential Life Students Only

Marine Science

Time: 8:00 am–10:00 am; 10:30 am–12:30 pm

3 weeks, 2 hours

Residential Students Only, ages 12–16

In this three-week course, students will explore the oceans and learn about local ecosystems from Hawai'i's tropical reefs to ocean ecosystems across the globe. Students will develop an understanding and appreciation of marine life through hands-on activities, laboratory experiments, field trips, and projects. Students will learn about water, waves, and tides, and how these impact the diversity of marine life. They will also explore how marine organisms interact with each other and their environment, study the impact of humans upon the marine environment, and apply conservation techniques that can help manage our valuable marine resources.

Food for Thought

Time: 8:00 am–10:00 am; 10:30 am–12:30 pm

3 weeks, 2 hours

Residential Students Only, ages 12–16

The 3-week lab-based course will focus on how and why we eat what we eat to help students connect sciences to topics that touch their lives every day. We will apply the scientific method to food and cuisine while investigating the overt and hidden ways science affects our food—all the while learning how to prepare and modify different food items. Depending on student interest, topics may include chemical, biological, and physical structure of foods, the path of food from farm to table, and how food interacts with human body systems—all seasoned with a dash of local culture and history.

Secondary School Admission Test (SSAT) Prep

Time: 8:00 am–10:00 am; 10:30 am–12:30 pm

3 weeks, 2 hours

This 3-week course aims to familiarize students with the exam and provides practice and strategies for testing with confidence. We will focus on students' specific needs in math and reading, and the class will have the opportunity to expand vocabulary and hone writing skills. Students will be administered an exam on both the beginning and concluding classes to measure growth.



Hawaiian Culture

Time: 10:30 am–12:30 pm

3 weeks, 2 hours

Residential Students Only, ages 12–16

This 3-week course will provide a basic foundational knowledge of Hawaiian culture, history, and language to give students the opportunity to gain an understanding of the rich cultural heritage of the Hawaiian people. Students will be able to learn to pronounce Hawaiian words and communicate utilizing basic Hawaiian phrases. They will be taken through a brief history of Hawai'i and get to know key figures and events. Planned activities will engage them with a hands-on approach to a variety of Hawaiian cultural practices such as lei making, crafting, hula, music, and much more.

Island Adventures

1:15 pm–3:15 pm

3 weeks, 2 hours

Residential Students Only, ages 12–16

Last summer 97% of ResLife students enjoyed this option. Meet new people, make new friends, and have fun! With an emphasis on leadership, team building, and the ONE TEAM philosophy, students will engage in a variety of activities. Students will participate in games, team sports, and water activities appropriate to their age and ability level, including hiking, paddling, and swimming. Off-campus field trips and excursions will occur frequently. The class is managed by 'Iolani faculty, staff, and assisted by 'Iolani students. 6-week students may join for both sessions.

» Art



The Art of Bullet Journaling Gr. 7-12

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

In this three-week class, you will tap into your creativity to design a personal "bullet journal" to use for a year. Organize your days, weeks and months, track birthdays, events, your habits ... keep positive and inspired! We will learn calligraphy so you can make your bullet journal ("BUJO") beautiful! If you love art, crafts, handwriting, colors, or just need to get organized, you will LOVE creating your own keepsake BUJO to use and treasure! Please enroll in session 1 or session 2, not both.

Ceramics Gr. 9-12

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Ceramics is a project-based inquiry into the design of clay vessels. Students see projects through a complete cycle of development from concept sketches to fabrication, glaze application, and firing. Using wheel-throwing and hand-building techniques, students develop an understanding of design as they develop their own sculptural vocabulary in a collaborative studio atmosphere. Materials included. Please enroll in session 1 or session 2, not both.

Surface Application and Design Gr. 7-8

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm; 1:15 pm-3:15 pm

3 weeks, 2 hours

Why do people put stickers on things? In this course, we will answer this question by investigating examples of decorating, ornamenting, and customizing that can be seen all around us. Students will also work through the process of designing something with the intention of making it. They will learn and practice the skills needed to assemble and fabricate a functional piece of art using clay. The projects students produce will be influenced by examples of colorful and creative design, the tactile feel of interesting texture, and the desire. Please enroll in session 1 or session 2, not both.

» English



Written Expression Gr. 7-8

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

Students develop and sharpen expository writing through a variety of exercises intended to create, inform, summarize, critique, and persuade. Students use materials representative of 'Iolani's writing program with a focus on various young adult material and texts.

Writing Sense Gr. 7-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

Students will complete a variety of assignments based on sensory experience including poetry, fantasy writing, and character sketches. With a focus on reading and language enjoyment while writing daily, Writing Sense will also explore the various mediums we use in expressing our literary thought. Please enroll in session 1 or session 2, not both.

Personal Essay Writing Workshop Gr. 10-12

Time: 10:30 am-12:30 pm

3 weeks, 2 hours

In this project-based class, students will begin honing the writing skills required for personal statements that can be used in college applications, resumes, cover letters, and job applications. We will focus on exploring how to tell their stories and represent themselves through their writing, building a portfolio of written work to draw from in a number of settings. Through meaningful writing projects, personal exploration and a highly reflective process, students will learn about themselves and how to convey their values and experiences in their personal statements. Please enroll in session 1 or session 2, not both.

Write Right! 10-12

Time: 8:00 am- 10:00 am; 10:30 am-12:30 pm

6 weeks, 2 hours

Textbooks required: visit <https://bnck-12.com/iolani.htm> to purchase before classes begin. Write Right! for grades 10-12 provides a comprehensive writing course focusing on literary analysis, foundational elements of academic writing, rhetorical analysis, narrative, argument, opinion and synthesis writing. There will be a focus on both individual writing and oral interpersonal communication skills, including partner and small group work.

» Mathematics

Pre-Algebra Prep Gr. 7-8

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

6 weeks, 2 hours

Students review the four basic operations with whole numbers, fractions, and decimals while strengthening their ability to apply those skills in problem solving situations in preparation for Pre-Algebra.

Mathtastic Games Galore Gr. 7-9

Time: 10:30 am-12:30 pm, 1:15 pm-3:15 pm

3 weeks, 2 hours

Students will enjoy daily group, partner, and individual math and logic games in this interactive math class. Games will be played using traditional decks of cards, custom-made cards, visual puzzles, group/partner competitions, board games, and more. This fun enrichment course is appropriate for students of all mathematical abilities. Advanced math students will be supported to challenge themselves, while students who have struggled in math will sharpen their reasoning skills and gain confidence in a pressure-free and fun environment. Please enroll in session 1 or session 2, not both.

Show Me The Money Gr. 7-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

Session 1 ONLY, 2 hours

This course investigates the characteristics and functions of money as it relates to both personal finance and the macroeconomy. Students will apply what they learn about money and the economy as they consider the financial decisions they will face throughout their lives using activities from the Learning, Earning, and Investing curriculum. Activities and simulations will be used to have the students use their financial literacy skills to practice making investment, financial, and everyday decisions.

Pre-Algebra Review Gr. 8-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

6 weeks, 2 hours

Prerequisite: Completion of Pre-Algebra

Textbook required: please purchase at <https://bnck-12.com/iolani.htm> before the start of class. Students review the concepts of Pre-Algebra and explore various problem solving strategies. Topics include operations with real numbers, measurement and data analysis.

Algebra 1 Review Gr. 9-11

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

6 weeks, 2 hours

Prerequisite: completion of Algebra 1

Textbooks required: visit <https://bnck-12.com/iolani.htm> to purchase before classes begin. Students will review 'Iolani's Algebra 1 curriculum in preparation for enrollment in Algebra 2. Topics include simplifying expressions, solving equations and inequalities with rational and irrational numbers, solving word problems, polynomials, the quadratic formula, factoring, graphing linear functions, and absolute value.

» Performing Arts



Rock Band Gr. 7-12

Time: 10:30 am-12:30 pm; 1:15 pm-3:15 pm

3 weeks, 2 hours

Students learn and rehearse songs from contemporary popular music in a fun group setting. By learning to perform together in an ensemble, they will also study music theory, practice effective communication (with each other and with the audience), exhibit teamwork, and exercise leadership skills. Rock on! Please select session 1 or 2, not both.

Prerequisite: At least one year of experience on instrument (guitar, bass guitar, drums, piano, vocals, etc.). Guitarists must supply their own instrument.

Intro to Improv Gr. 7-12

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Join us to learn what improv is all about! Students will be introduced to the art form of improvisational theatre. This course is sure to bring lots of laughs, surprises and excitement! Students may enroll in both sessions.

Hip Hop Gr. 7-12

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Learn street dance set to contemporary pop or hip hop music. Improve your coordination and creativity through strength training warm-up, stretching and exciting dance combinations. No experience required. Students may enroll in both sessions.

» Physical Education and Sports



Fun Fitness Gr. 7-9

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Come join the fitness fun as we learn a new sport each week! Team sports are not only a great way to stay active and healthy, but also help with the building blocks of social and emotional development for young people. The first part of each week we will learn the skills and practice strategies for sports such as soccer, kickball, spikeball and ultimate frisbee. The week culminates in fun Friday competitions (pool play) with fellow classmates. Students may enroll in both sessions.

» Study and Life Skills



Japanese Language Basics Gr. 7-9

Time: 8:00 am-10:00 am

6 weeks, 2 hours

Conversational Japanese Packet required: purchase at the Campus Store before classes begin. Students learn basic study skills in vocabulary memorization and note-taking while gaining the ability to converse in Japanese. The class teaches greetings, useful expressions, personal questions and answers, and simple money transactions. Class activities include games, interviews and videos. No Japanese language background necessary. Students will not learn to read or write in Japanese kana. Current Japanese language students will learn to master vocabulary, grammar and note taking, review previous lessons, and gain confidence in their language skills.

Let's Learn Japanese! Gr. 7-9

Time: 10:30 am-12:30 pm

3 weeks, 2 hours

This introductory course is designed to help students dive into their Japanese language learning journey. No prior Japanese knowledge required. This workshop will cover reading, writing, listening, and speaking Japanese through an online platform. It will give students a solid foundation to build their language learning skills. Let's dive right in and begin this journey together! Please select session 1 or 2, not both.

Conversational Chinese Gr. 7-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

Join us in exploring colloquial Chinese and the rich Chinese culture in this engaging course. Using Chinese movies, TV shows and social media, we will embark on a learning journey that synthesizes Chinese cultural values (both classic and modern) and experiences to transform our perspective. New Chinese speakers will develop their Mandarin language foundation and grow their confidence in their listening and oral skills with interactive games and skits. Please select session 1 or 2, not both.

'Ōlelo Hawai'i Gr. 7-9

Time: 8:00 am-10:00 am

3 weeks, 2 hours

This is an introductory course in 'Ōlelo Hawai'i (Hawaiian language) with a focus on common conversational phrases. The goal of this course is to have students become comfortable with communicating in Hawaiian on a beginning level. Students will have the opportunity to learn basic grammatical structures, vocabulary, and both formal and informal expressions through the use of games/activities, themed conversation and projects. No experience is necessary. Please select session 1 or 2, not both.

» Study and Life Skills

Our Ahupua'a Gr. 7-9

Time: 10:30 am-12:30 pm

3 weeks, 2 hours

In Our Ahupua'a: Observing and Experiencing the Watershed Through Stories and Citizen Science, students will be immersed in an interdisciplinary, place-based course with the intention to understand through stories and experience the interconnectedness of the environment, biodiversity, and people in our watershed. Through trips to different parts of the ahupua'a, students will study the science, history, and culture behind how the watershed functions and the major challenges facing this area. Students will go into the field and collect data that focuses on water quality and biodiversity and learn how to evaluate the health of the streams and terrestrial landscape. Through stories of place, they will learn about how the ahupua'a once functioned in an effort to move toward a cleaner and more balanced Ala Wai. Please select session 1 or 2, not both.

Gods, Monsters and Heroes: An Intro to Greek Mythology Gr. 7-9

Time: 10:30 am-12:30 pm, 1:15 pm-3:15 pm

Session 1 ONLY

This enrichment course provides an introduction to the exciting and enduring myths and legends of ancient Greece. Students follow in the footsteps of owl-eyed Athena, cunning Odysseus, earth-shaking Poseidon, the snake-haired Gorgon, and many of the other key gods, goddesses, heroes, and monsters of ancient Greece. They also learn the basics of the Greek language. Activities include a fun and engaging mixture of readings, films, games, and hands-on projects.

Just Type It! Gr. 7-12

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

This course is designed with a main emphasis on keyboarding skills. Students will learn proper keyboarding posture and technique while building their speed and accuracy using the touch type method. Students will focus on the alphabet, punctuation, and numeric keys. They should be able to key at 25 WPM by the end of the course. Students will also be introduced to a variety of options in Google Docs and Microsoft Office. Please enroll in session 1 or session 2, not both.

Entrepreneurship 101 Gr. 9-12

Time: 10:30 am-12:30 pm

SESSION 2 ONLY

This course is designed to introduce and support high school students interested in entrepreneurship in a safe and nurturing class environment. Working collaboratively, using their imagination, risk-taking and problem-solving skills, students will formulate their project ideas and learn the critical steps to create an innovative business plan. In addition to building their own skill set, they will have the opportunity to learn from and interact

with leaders of local businesses and corporations. Students will leave the course with a solid foundation and resources to pursue their own entrepreneurial projects.

SAT & ACT Prep Gr. 10-12

Time: 8:00 am-10:00 am

6 weeks, 2 hours

The 'Iolani SAT & ACT prep course focuses on preparing high school students for new digital versions of both of these college entrance exams. Students receive expert instruction on the evidence based reading, writing, math, and science sections of these tests, as well as practice with the soon-to-be digital formats. This course is ideal for soon-to-be sophomores and juniors who are not yet sure which college entrance exam they wish to take. Students will take multiple full-length practice exams, each producing a personal score report. Special features of the course include: (1) acquisition of skills necessary for improvement on these tests through in-depth official practice with ACT Online Prep; (2) digital score analysis feedback for tracking improvement; (3) an introductory college counseling session; and (4) a 2-hour review session in September before the fall testing season. There are no required textbooks for this course, but students must have a smart device (preferably an iPad or laptop, though a smartphone can work). Once registered, students will be asked to provide some academic information for class placement.

SAT Prep Gr. 10-12

Time: 10:30 am-12:30 pm

3 weeks, 2 hours

The 'Iolani SAT prep course focuses on preparing high school students to prepare for the new digital version of this college entrance exam. Students receive expert instruction on the evidence based reading, writing, and math sections as well as practice with the soon-to-be digital format. This course is ideal for soon-to-be sophomores and juniors who have sided with the SAT as their chosen college entrance exam. Most 'Iolani students elect this exam as they have become accustomed to the PSAT each year. As part of this course, students will take multiple full-length practice exams, each producing a personal score report, and two faculty instructors. Special features of the course include: (1) acquisition of skills necessary for improvement on these tests through in-depth official practice with College Board and Khan Academy; (2) digital score analysis feedback for tracking improvement; (3) an introductory college counseling session; and (4) a 2-hour review session in September before the fall testing season. There are no required textbooks for this course, but students must have a smart device (preferably an iPad or laptop, though a smartphone can work). Once registered, students will be asked to provide some academic information for class placement.

» 21st Century Toolbox



Intro to Laser Cutting Gr. 7-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

Bridging art and technology, this course is an introduction to digital design specifically for laser -cutting. Students will work extensively with 2D software programs to design and create various laser-cut projects using a variety of materials in the Sullivan Center for Innovation and Leadership's Fabrication Lab. The class will begin by exploring graphic design and build their way up to visualizing how 2D pieces can come together to create 3D objects. Students will practice design thinking and develop the skills necessary to see an idea through from design to fabrication. Please enroll in session 1 or session 2, not both.

Mission to Mars Gr. 7-9

Time: 10:30 am-12:30 pm; 1:15 pm-3:15 pm

SESSION 2 ONLY, 2 hours

Let's plan a Mars mission! Students will plan a detailed mission to Mars including rockets, how to sustain life on another planet, and scientific goals unique to Mars! Students will engage in artistic endeavors exploring this mission such as poster designs, mock spacecraft designs, 3D creations, and more! Explore your creative, expressive side in this class while learning about the science behind a Mars mission.

Welcome 2 Robotics! Gr. 7-9

Time: 8:00 am-10:00 am; 10:30 am-12:30 pm

3 weeks, 2 hours

This course is a hands-on introduction to the challenge of the construction and programming of autonomous robots. It is a fun course for anyone wanting to be a part of the next generation of engineers and inventors with daily challenges and builds. Updated with the LEGO Mindstorms EV3 platform, students will be immersed in a project-based and collaborative learning environment, solving real world problems as they design, build and program working robots. Please enroll in session 1 or 2, not both.

Biomimicry: Sustainable Design & Innovation Gr. 7-9

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Life has existed on planet Earth for 3.8 billion years—that's a lot of time for nature to innovate and adapt to a huge variety of challenges. Biomimicry is the practice of looking to nature to discover solutions to the problems we face. In this workshop, you will learn how biomimicry is helping to solve some of our greatest challenges, discover the functions and strategies nature uses to solve problems, and apply the biomimicry process to a

» 21st Century Toolbox

real design challenge. You will learn to conceptualize a prototype design solution for your design challenge. If you are fascinated by nature and the world around you, or enjoy innovating and designing, this workshop is for you. Activities will include observing nature outdoors, discovering biological models, sketching designs, testing ideas and collaborative work in teams. Please enroll in session 1 or session 2, not both.

Introduction to Graphic Design Gr. 7-9

Time: 10:30 am-12:30 pm

SESSION 2 ONLY, 2 hours

This course dives into graphic design and equips students with an understanding of the elements of visual communication and the technical skills to create designs that give life and motion to their ideas. Students will learn the software used for print and digital design including Illustrator, Photoshop, and InDesign. Projects and areas of study in this course include design principles, color theory, typography, digital citizenship, branding, and advertising. Students will apply their skills in a variety of projects including creative personal pieces and real-world client work. The course will culminate with the creation of a portfolio of the student's creative works.

Programming in Python: The Snake That Doesn't Bite Gr. 7-12

Time: 1:15 pm-3:15 pm

SESSION 2 ONLY, 2 hours

Named after Monty Python's Flying Circus, the Python programming language is designed for readability, simplicity, and flexibility without sacrificing power. As such, it has quickly become one of the most popular languages in domains ranging from entrepreneurial web applications, scientific research, and artificial intelligence. In this course, you will learn the basics of Python (data types, control structures, loops, file manipulation, classes) along with fundamental programming principles. At this course's conclusion, you will have the opportunity to explore novel applications of Python through personal projects of your own design.

Think Like an Inventor Gr. 9-12

Time: 10:30 am-12:30 pm

3 weeks, 2 hours

Grounded in Industrial Design (product design) theory and methods, this summer course is all about teaching students to learn how to think like an inventor- think independently, think critically, and continue to think with childlike curiosity. Students will make a series of objects of their interest. One of the projects will include dissecting a hand-held product, identifying the parts and systems, and displaying it for the class to see. Please enroll in session 1 or session 2, not both.

Pathways to Community Leadership Gr. 9-12

Time: 10:30 am-12:30 pm

SESSION 2 ONLY

What matters to YOU? Do you care about protecting our environment, wildlife conservation, food insecurity, helping global youth living in poverty, education and health for all, human rights? Have you followed social movements on social media? Want to do more than just click like on an insta or tiktok feed to promote social justice? Learn to align your values and strengths to build power to create change. This course will introduce you to tools including grantmaking, grant writing and the art of public narrative—how to tell your story and connect it to an audience who will be empowered to take action. You will think deeply about your role in solving the problems we face as a society and your role as a youth changemaker. Travel virtually to visit nonprofit organizations and interact with global leaders on several continents. In a fun and interactive environment, students will learn strategies for personal leadership and community organizing. As a final project student teams will write a grant proposal for a Hawaii nonprofit and compete for a monetary grant award from Ananda Fund Hawaii.

New Sport for Health + Fun Gr. 9-12

Time: 1:15 pm-3:15 pm

3 weeks, 2 hours

Grounded in Industrial Design (product design) theory and methods, this summer course will focus on designing a new sport for health and fun with a focus on playground sports and rackets sports. Students will play and review existing playground and racket sports before designing the new sport: 4-square, pickleball, badminton, and Ping-Pong. To research and design the playground sports, students will be spending some time outdoors. Please enroll in session 1 or session 2, not both.