SUMMER PROGRAMS
May 31–July 22 2016
for GRADES 1–12

www.hawaii.edu/crdg/sp
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ABOUT CRDG SUMMER PROGRAMS

The Curriculum Research & Development Group (CRDG) Summer Programs at the University of Hawai‘i at Mānoa continues its commitment of over forty years of summer education, exploration, and adventure. Students entering grades 1–12 discover what it takes to be scientists conducting research in the laboratory and field; engineers designing and building solutions to real world problems; conservationists working to protect the natural resources of the ‘āina; artists, writers, and designers exploring their creativity; or actors producing and starring in an original stage production.

Inquiry-based instruction and hands-on learning in the classroom, laboratory, field, studio, and theater are the cornerstones of all of our courses. Classes are led by a highly qualified staff of teachers and teacher-assistants to ensure a safe learning environment where students are able to immerse themselves in their work and come to their own “A-HA!” moments.

Administrative Staff

Director, CRDG ...................................................... Dr. Paul Brandon
Program Director and Principal Investigator .................. Dr. Helen Au
Program Manager ................................................... Alycia Fujii
Program Coordinator ................................................ Jaret Leong
Program Coordinator .............................................. Eizen Ramones
Student Services Coordinator ................................... Dayna Kitamura

General Information

• All classes meet on the University Laboratory School campus.
• No classes will be held on May 30 (Memorial Day), June 10 (Kamehameha Day observed), or July 4 (Independence Day).
• Supervised areas will be available from 7:30 a.m. - 5:30 p.m. to ensure safe learning and play.
• All students must provide their own snacks and lunch. No food service is offered.
Course Selections and Grade Levels

- There are no pre-requisites for any of our classes.
- Listed grade levels are for students entering that grade. For example, a course labeled grade 4 is for students entering grade 4 in the fall.
- Grade levels are suggestions to help parents select appropriate courses. Course topics will be targeted to the grades indicated, but students are welcome to sign up for any class as long as they are able to keep up with the class activities and are socially prepared to be with students who are not their age.
- Course offerings, times, and descriptions are subject to change. Please visit our website for the most up-to-date information (www.hawaii.edu/crdg/sp).

CALENDAR

COURSE START AND END DATES

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REGISTRATION AND PAYMENT

- Registration is on a first-come, first-served basis.
- Full tuition payment must accompany every application. Your application is not confirmed until payment is received in full. Applicants will receive email notification confirming registration.
- We will notify you by email if your payment is declined (returned checks or invalid credit card). If full payment has not been made within 14 days of notification, your registration will be cancelled.
- Out-of-state and international students who have not previously attended CRDG Summer Programs must submit a tuberculosis (TB) clearance performed within 12 months of the class start date by a U.S. licensed physician.

CLOSED (FULL) COURSES

- If a course is full, we will contact you to place the student in an alternate course. If there is no suitable course, we will refund you in full for that course (see REFUND section for details).
- You may also request to be waitlisted for a full course. If space opens, admitted students will be notified by phone and/or email.

CANCELLED COURSES

- Any course may be cancelled due to low enrollment. We will evaluate our courses at the end of General Registration and contact you if your course(s) are cancelled.
- If the student cannot be placed in another class, you will receive a full refund for the cancelled course (see REFUND section for details).

Tuition

CORE PROGRAM: JUNE 6 – JULY 8 (5 weeks)
- Morning program (8:00 a.m.-11:45 a.m.) ...................... $765
- Afternoon program (12:30 p.m.-3:15 p.m.) ....................... $745
- Full-day program (8:00 a.m.-3:15 p.m.) ....................... $1,450

SPECIAL PROGRAMS:
- Driver’s Education (June 13–24, 8:30-11:30 a.m.) ............... $580

SUMMER ADVENTURES (8:00 a.m.-3:15 p.m.)
- Option A  May 31–June 3 (4 days) ................................. $420
- Option B  July 11–15 (5 days) ................................. $525
- Option C  July 18–22 (5 days) ................................. $525

AFTER-SCHOOL PROGRAM (3:15-5:30 p.m.)
- May 31–July 22 .................................................. $100 per week
Registration Schedule
Payment must be postmarked/received by the deadlines to receive discounts.

March 11: Last Day for Early Registration discount ($50 discount on tuition).
March 12–May 6: General Registration.
May 7: Late Registration begins ($50 late fee).

To Register

ONLINE
Log on to www.hawaii.edu/crdg/sp to complete your online registration and payment.
• Submit separate application forms and registration/payment for each student.
• Select your classes and submit your tuition payment via our online catalog
• Click the link to complete the online application and emergency information form (link is also sent in your email confirmation).

MAIL
• Submit separate application forms and payment for each student.
• Complete the application and emergency information form.
• Write a check payable to RCUH for the full payment amount.
• Mail or deliver the completed forms and payment to
  University of Hawai‘i at Mānoa
  Curriculum Research & Development Group
  Attn: Summer Programs Registration
  1776 University Avenue, CMA 101
  Honolulu, HI 96822

Refunds and Withdrawals
• Contact us to confirm your withdrawal/cancellation by the refund deadline to receive a refund.
• Refunds will be sent via check to the home address listed on your application form unless otherwise stated.

REFUND DEADLINE: Last day to withdraw with full refund less 15% ($100 minimum) administrative fee
  May 6: Core Program, Summer Adventure, and Special Programs
  June 20: Summer Adventure B and C

NO REFUNDS will be given for withdrawals after the refund deadline.

NOTE: Because CRDG is a state agency, refunds cannot be processed without a completed WH-1 tax form. We will not be able to process refunds for forms received after Summer Programs ends (July 22, 2016). Contact our office for a copy of the form.
CORE MORNING PROGRAMS

JUNE 6–JULY 8
8:00–11:45 AM
In this interactive class students will expand their interest in science, technology, engineering, and mathematics. Students will apply skills and ideas from each discipline to fun, hands-on projects such as exploring chemical properties in play dough, designing and testing ovens powered by solar energy, constructing simple water filtration systems, and more.

In this interactive class students will expand their interest in science, technology, engineering, and mathematics. Students will apply skills and ideas from each discipline to fun, hands-on projects such as creating a hovercraft, designing and testing ovens powered by solar energy, exploring the physics of building a sturdy bridge, and more.

Students do not need to have taken the previous course to enroll.
Students will immerse themselves in Hawai‘i’s natural environment, gaining an appreciation and understanding of the organisms that surround them everyday as well as extending their “ed-ventures” to nearby tidepools, gardens, and landscaped and forested areas to enrich their experiences.

Through activities taken from CRDG’s Hawai‘i Nature Study program, Hawai‘i’s outdoor environment becomes the students’ classroom and laboratory. Students engage in the naturalist tradition to explore the world of plants, insects and other small animals, and organisms living within Hawai‘i’s reef and shoreline environments. Investigations will follow their life cycles, test their responses to various stimuli, observe their different behaviors, learn what places them in different groups, and determine what foods they prefer to eat or make themselves. The learning experience is broadened through the integration of arts and crafts and the visual and performing arts.

Students do not need to have taken previous courses to enroll.

- **Observers** (GR 1–2)
- **Explorers** (GR 3–4)
- **Investigators** (GR 5–6)
- **Researchers** (GR 7–9)
Adventures in Measureland

Experience in fun and challenge of measurement-related investigations! In this class, students will engage in hands-on activities and make connections to mathematics topics. Explorations into quantity, units, number line, and the meaning of basic operations will enrich students’ understanding of mathematics beyond arithmetic.

Introduction to Robotics with Lego WeDo (Lower Elementary)

No previous robotics experience is required.

The Lego WeDo system is designed to provide young students a simple introduction to robotics and mechanical design. This course uses Lego WeDo to allow students to explore and develop STEM (math, science, engineering, and technology) as well as language arts and social studies skills through project-based activities. Working in pairs, students will utilize these skills to design, create, and program moving models, all while enhancing their creative and problem-solving abilities.
Minecraft: An Adventure, An Experience

Minecraft is one of the most popular open-world video games. In this interactive course, students will participate in a virtual learning adventure within the Minecraft environment, utilizing a variety of skills in science, technology, engineering, and math. The focus will be project-based learning through an engaging immersive experience. In small teams, students will set goals to accomplish a variety of tasks from food production to integration of technology.

Drama: Stage Production

In this production-driven drama course, students will experience the process of creating a scripted play, including auditioning, stage reading, character work, rehearsing, and making costumes and props. At the end of the program, they perform an evening show for their family and friends.
Students will be immersed in a multi-platform experience using modern tablet technology and notebook computers. Class activities will foster creativity, innovation, critical thinking, problem solving, communication, and collaboration skills using Google Apps for Education. Each day the class will examine an aspect of technology by looking back at its history while exploring its current and future applications.

Little Journalists

GR 5–9

Students will experience what it’s like to be a working journalist in this hands-on course. Students will learn techniques for gathering information, writing articles and captions, capturing interesting and informative photographs and video segments, creating print and web layouts, and, most importantly, meeting deadlines. They will put all their skills to use producing a weekly digital newsletter for distribution to every Summer Programs student and teacher and maintaining an online news blog.
CORE AFTERNOON PROGRAMS

JUNE 6–JULY 8
12:30–3:15 PM
**Hawai‘i’s Heritage, Traditions, and Cultures**

Students will learn about some of the cultures that most influence our life in Hawai‘i in this fun activity-based class. Each week students will learn about a new culture by tasting the food, creating crafts, exploring the language, performing music and dance, and studying the history and traditions that make it unique.

**IMPORTANT:** Please notify the office of any food sensitivities or dietary restrictions, as sampling food will be an optional part of this class.

**STEM Workshop: Science Olympics**

In this hands-on class, students will challenge their minds and each other in challenges that apply STEM knowledge to real world applications. Students will be divided into teams to explore the fundamentals of roller coasters, build and test structures, discover ways in which gears make our lives easier, and more. At the end of each concept creation phase, teams will put these creations to the test and compete to see whose creations perform the best!
Robotics with Lego NXT  
(Lower Elementary)  
GR 3–5

No previous robotics experience is required.

Using Lego NXT™ to explore the fundamentals of physical science and mechanical engineering, students will design and build vehicles and devices that are used in various team challenges. Using the Lego™ computer software, students will program their creations to transform them into working robots that are automated to perform specific tasks.

Creative Programming  
GR 4–6

Students will explore the arts by creating projects that include elements of design, drawing, music, and dance using a programming language called Scratch developed by MIT Media Lab. Students will use a design-based learning approach to create interactive art, stories, and animations and will have the ability to share those creations online. The goals of the course are to help students imagine new possibilities for what they can do with computers, learn to express themselves creatively with new technologies, and explore computational ideas through personally meaningful projects.

Robotics with Lego EV3  
(Upper Elementary)  
GR 4–6

No previous robotics experience is required.

As programmers and engineers, students will use the Lego EV3™ system to design and program sensing and moving robots. By working in teams, students develop their skills in communication and logic to devise solutions to various challenges.
Animation Studio: Stop Motion Production  
GR 5–8
Learn the basics of animation in this hands-on media class. In our beginning animation studio, students will become storytellers and animators as they learn the fundamental principles of animation. Students will learn photography, storytelling techniques, and different types of stop motion animation. They’ll compile their projects on the computer to create their own high-definition movies complete with music, dialogue, and sound effects.

Inspiring Global Leaders  
GR 5–9
Is it really that hard to be the president? If you were a world leader, how would you run your country? Students will explore themes of leadership, geo-politics, and sustainability in a fun, collaborative environment through the computer-based simulation program, Simpolicon©. This online, multi-player simulation allows students to immerse themselves in leading real world countries (e.g., China, Germany, Peru, etc.). As world leaders, students will work to create and maintain stable, secure countries with well-balanced and sustainable economies by making economic, environmental, and political decisions on behalf of their citizens. Through Simpolicon©, students will experience the complexities and challenges of social and economic development in a global, interconnected world. In addition to social studies content, students will experience opportunities to develop valued twenty-first century skills such as critical thinking, communication, and collaboration.
In this production-driven drama course, students will explore the world of musical theatre and experience the process of creating a Broadway-style musical show, including auditioning, character development, rehearsing, making costumes and props, vocal training, and learning simple dance routines. At the end of the program, they will perform an evening show for their family and friends.

No previous robotics experience is required.

In Robotics with VEX, students will become programmers of interactive robotic devices that they create from the ground up. Utilizing the power of the VEX Robotic Systems™ as a base, students will advance their knowledge and skills of engineering, fabrication, programming, and problem solving in a team-oriented environment to construct unique intelligent bots that complete increasingly difficult challenges. Students will learn to use computer-assisted lathes and shop tools to fabricate structural and integrated components. Outside-the-box thinking is required!
Driver’s Education

GR 10–12

Emphasizing the techniques of defensive driving, this course equips students with the skills necessary to be a safe and sensible driver. By creating a “Skills Project Book,” students take a proactive role in learning the rules of the road, thereby aiding their development as young drivers. This course includes the thirty hours of classroom instruction and six hours of behind-the-wheel instruction required by state law. Driving time will occur outside of class time and will be scheduled on an individual basis with the instructor. We recommend that students be at least 15½ years old by the start of the class.

SPECIAL PROGRAMS

JUNE 13–24
8:30–11:30 AM
SUMMER ADVENTURES

May 31–June 3 • July 11–15 • July 18–22

8:00 AM–3:15 PM

Summer Adventures

The Summer Adventure program provides students with a full day of physical activity and health and fitness education. Students will participate in educational and enriching activities both inside and outside of the classroom. Activities vary by week and may include exploring scenic hiking trails while practicing orienteering, swimming and diving at the pool, snorkeling at the beach, bicycling along various bike paths, learning traditional ocean outrigger paddling, and more. Students do not need previous experience with any of these activities to participate. Students should bring their own snacks and lunches.

The program is limited to thirty-five students per session.

Option A May 31–June 3
Option B July 11–15
Option C July 18–22

AFTER-SCHOOL PROGRAM

Weekly from May 31 to July 22

3:15–5:30 PM

After-School Program

As a service to working parents, CRDG Summer Programs offers an after-school program for students who are enrolled in our full-day and afternoon classes.

More than just child care, our after school program is led by qualified teachers and involves students in a variety of fun and educational activities—outdoor competitions, indoor games, movie days, cooking, science activities, crafts, and more—all in a safe and supervised environment. Students should bring their own snacks.

IMPORTANT: Please notify the office of any food sensitivities or dietary restrictions, as sampling food may be an optional part of this class.

The program has no registration limit.
CRDG Summer Programs 2016
(on the University Laboratory School campus)

May 31–July 22, 2016

University of Hawai‘i at Mānoa
Curriculum Research & Development Group
1776 University Avenue, CMA 101
Honolulu, HI 96822

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