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 2–12 discover how to be scientists in the laboratory and field; engineers designing and building solutions to real-world problems; artists and writers exploring their creativity; photographers, journalists, and animators creating publications and videos; and actors producing and starring in an original 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. Kathleen Berg
Program Director and Principal Investigator ............. Dr. Helen Au
Program Manager ................................ Alycia Fujii
Program Manager ................................. Jana Nakamura

GENERAL INFORMATION

• All classes meet at the University Laboratory School.
• No classes will be held on June 11 (Kamehameha Day) or July 3 (Independence Day holiday).
• Supervised areas will be available before school, during lunch and recess, and immediately after school to ensure safe learning and play.
• All students must provide their own snacks and lunch. No lunch program is offered.
REGISTRATION AND PAYMENT

• Registration is on a first-come, first-served basis. Courses have a maximum enrollment of 25 students, unless otherwise noted.

• **Full tuition payment must accompany every application.** 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 may be cancelled. Contact us as soon as possible if you have any concerns.

• Applications received after a course is full will be waitlisted. If space opens, admitted students will be notified by email. Payment is due within 14 days of notification of admittance into the course.

• All payment must be received by the student’s first day of class.

• Any course may be cancelled due to low enrollment. Parents/guardians will be contacted in an effort to place the student in an alternate course/section. If the student cannot be accommodated, you will receive a full refund for the cancelled course.

**Tuition**

**CORE PROGRAM: JUNE 15–JULY 17 (5 weeks)**
- Morning program (8:00–11:45 a.m.) .............................................. $695
- Afternoon program (12:30–3:15 p.m.) .............................................. $675
- Full-day program (8:00 a.m.–3:15 p.m.) .............................................. $1350

**SPECIAL PROGRAMS: JUNE 15–26 (2 weeks)**
- Driver’s Education (8:30–11:30 a.m.) .............................................. $525
- Inspiring Global Leaders (12:30–3:15 p.m.) .............................................. $400
- Taste of Technology for the 21st Century (8:00–11:45 a.m.) .............................................. $425

**SUMMER ADVENTURES (8:00 a.m.–3:15 p.m.)**
- Option A June 8–12 (4 days) .............................................. $280
- Option B July 20–24 (5 days) .............................................. $350
- Option C July 27–31 (5 days) .............................................. $350

**INTERNATIONAL STUDENT PROGRAM (8:00 a.m.–3:15 p.m.)**
- Week 1 July 20–24 .............................................. $850
- Week 2 July 27–31 .............................................. $850

**AFTER-SCHOOL PROGRAM (3:15–5:30 p.m.)**
- JUNE 8–July 31 .............................................. $65 per week

**Registration Schedule**

- **March 31:** Last day for early registration discount ($50 discount on tuition)
- **April 1–May 8:** General registration
- **May 9:** 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 on the confirmation page 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
Last day to withdraw with full refund less $100 administrative fee

May 8: Core Program, Summer Adventure A, Special Programs, and International Student Program
June 19: Summer Adventure B and C

REFUND DEADLINE
Last day to withdraw with full refund less 20% administrative fee

May 22: Core Program, Summer Adventure A, Special Programs, and International Student Program
July 2: Summer Adventure B and C

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

## Course Start and End Dates

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Explorations in STEM  
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 the fundamentals of roller coasters, building and testing structures, designing mobile art, discovering the ways in which gears make our lives easier, and more.

Students do not need to have taken the previous course to enroll.

   STEM: Discovery  
   Grades 2-3
   STEM: Innovation  
   Grades 4-5

Hawai‘i Nature Study Program  
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.

   Nature Study: Observers  
   Grade 2
   Nature Study: Explorers  
   Grade 3
   Nature Study: Investigators  
   Grades 4–5
   Nature Study: Researchers  
   Grades 6–8
Drama: Stage Production

GR 4–7

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 will do performances for the Summer Programs students and an evening show for their parents and friends.

Little Journalists

GR 5–8

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 print newsletter for distribution to every Summer Programs student and teacher and maintaining an online news blog.
JUNE 15–JULY 17
CORE AFTERNOON PROGRAMS

 Exploration in Mixed Media: Creator Space  
**GR 2–4**

Students will explore, discover, and create one of a kind art pieces using multiple forms of media. The class will emphasize the exploration of art media such as paint, food color dye, pencils, and crayons with natural elements and household materials. Students will experiment with water, earth, air, and heating elements each week to create various art pieces and projects such as texture rubbings, puffy paint art, salt dough, and many other art forms. Students will be inspired to think outside the box and to stimulate their imaginations and creativity.

 Exploration in Mixed Media: Recycling Arts  
**GR 2–4**

Recycling Arts is a mixed media class that focuses on creating original art pieces from recyclable objects such as plastic bottles and containers, empty glass bottles, and paper-based media. Students will be encouraged to push their imaginations to see the potential for art in everyday objects, while learning about the elements of design and applying what they’ve learned in weekly projects.

Robotics I (Lower Elementary)  
**GR 3–4**

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

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 of what they can do with computers, learn to express themselves creatively with new technologies, and explore computational ideas through personally meaningful projects.

Robotics II (Upper Elementary)

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.
JUNE 15–JULY 17
CORE AFTERNOON PROGRAMS

Digital Media: Beginning Animation Studio

GR 5–8

Learn the secrets of animation in this hands-on, digital media class! In our animation studio, students will become storytellers and animators as they learn the fundamental principles used by the creators of your favorite animated films such as *Wall-E*, *Shrek*, and *Finding Nemo*. Students will learn photography, storytelling techniques, and different types of animation. They’ll compile their projects in the computer to create their own HD movies complete with music, dialogue, and sound effects.

Exploration in Mixed Media: Water Color Painting

GR 5–8

This summer painting class is a fun introduction to basic concepts and techniques using watercolors. The emphasis throughout the course is on experimenting with abstract watercolor media, incorporating other materials and mediums such as salt, wax, ink, watercolor pencil, graphite, markers, fibers and stencils, and stamping techniques. Students will also explore finding new compositions within their finished paintings.

Creative Graphic Design

GR 6–8

From magazines to t-shirts to posters, design is all around us. In this class, students will explore the world of digital art and design. Students will learn to use professional software such as Adobe Creative Suite to illustrate images, edit photos, and create layouts for various projects such as flyers, posters, portfolios, resumes, books, and more!
Finding Our Voice: Poetry and Creative Writing  
**GR 6–9**

This class will give students foundational tools to express themselves through writing. Structured in a "writer’s workshop" format, students will be given a theme to explore each week and will spend the week learning the basics of a different writing techniques (short story, drama, slam poetry, traditional poetry, narrative essay, etc). At the end of each week, students will share their writing, discuss their process, and have a safe space to share and receive praise and constructive feedback.

Drama: Improvisation  
**GR 7–9**

This fun program for middle school students explores improvisation techniques used in theatre. Students will be encouraged to employ creative thinking and to develop their imaginations. Skills will include character development and scene work. They will eventually perform a number of shows based on audience suggestions.

Robotics III (Middle/High)  
**GR 7–10**

No previous robotics experience is required.

In Robotics III, 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!
**SPECIAL PROGRAMS**

**Tastes of Technology for the 21st Century**
8:00–11:45 AM

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 we will examine an aspect of technology by looking back at its history while exploring its current and future applications.

**Inspiring Global Leaders**
12:30–3:15 PM

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.

**Driver’s Education**
8:30–11:30 AM

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 15 1/2 years old by the start of the class.
Summer Adventures
8:00 AM–3:15 PM

The Summer Adventure program provides students with daily physical activities and education in health and fitness. 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 should bring their own snacks and lunches.

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

- Summer Adventure, Option A  
  June 8–12
- Summer Adventure, Option B  
  July 20–24
- Summer Adventure, Option C  
  July 27–31

Weekly from June 8 to July 31

AFTER-SCHOOL PROGRAM

After-School Program
3:15–5:30 PM

As a service to working parents, CRDG Summer Programs offers an after-school program for students who are enrolled in classes that end at 3:15 p.m. The After School Program provides students with a variety of activities—outdoor sports, indoor games, videos, reading, and crafts—in a safe and supervised environment. Students should bring their own snacks. Program has no registration limit.
We welcome international and ESL students to participate in an immersive program that combines English language learning with exciting and educational outdoor and indoor activities. Students will enjoy physical activities such as hiking, swimming, or bicycle riding in Hawai‘i’s beautiful natural environment several times each week along with local students their own age. On the remaining days, they will practice their English language skills through fun activities, games, and lessons. Lessons and activities will vary each week. You do not have to have taken Week 1 to enroll in Week 2.

Visit our website at www.hawaii.edu/crdg/sp for enrollment information.
CRDG Summer Programs 2015
(on the University Laboratory School campus)

June 8–July 31, 2015

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

Phone: (808) 956–8176
Email: crdgsum@hawaii.edu
Website: www.hawaii.edu/crdg/sp

CAMPUS MAP