Out of School Opportunities for High School Students

Multiple Opportunity Programs

- **Upward Bound Math & Science Program** (Leeward, Windward, Maui and Hawai'i Community Colleges) a free year-round program preparing youth for college by providing free tutoring, college tours, career guidance, summer instruction, college credit classes, personal advising, financial aid counseling, cultural activities, camping, team building, field trips and more. The program is for students from low-income families or who are the first generation in their family to pursue a college degree. Go to: http://emedia.leeward.hawaii.edu/upwardbound/http://maui.hawaii.edu/upward/http://upwardbound.wcc.hawaii.edu/, http://www.uhh.hawaii.edu/academics/ub/,

- **Na Pua No'eau** On all islands, supports Native Hawaiians with the purpose of increasing educational enrichment opportunities. Summer, internship and year-round programs available. Register at: http://npn.uhh.hawaii.edu/

- **Americorps Hawai'i** Designed to achieve direct results in addressing the nation's critical education, human, public safety, and environmental needs at the community level. Paid & volunteer positions available. Go to: http://www.hawaii.edu/americorpshawaii/

- **Dream Team Hawai'i** is an experiential program for leadership, entrepreneurship and financial literacy for elementary and middle school students. Go to: http://www.dreamteamhawaii.com/

Summer Programs

- **Hawai'i Youth Conservation Corps Summer Program (Most Islands)** summer education and community services program gets students working out on the 'āina. The physically demanding program lasts 6 weeks and introduces students to natural resource management and professionals who work in the field. See More Resources Appendix (in Section III on compact disk) for Compiled HYCC Team Leader & Student Applications, a Brochure & Bulletin Board Flyer. Go to: http://www.hawaiiycc.com/
  o APPLICATIONS DUE: February 28th

- **PaCES Summer Environmental Science Program** at Windward Community College, for windward O'ahu students interested in environmental and marine science. See Appendix for PaCES Student Application Form & learn more about this very hands on credit program at: http://windward.hawaii.edu/PACES/
  o APPLICATIONS DUE: February
Summer Programs (cont’d)

- **ʻImi Pono No Ka ‘Āina (Hawaiʻi Island)** Developed in hope of instilling a strong conservation ethic and sense of stewardship in local communities. Contact Mililani Browning at Resources Management Division, Hawaiʻi Volcanoes National Park, P.O. Box 52, Hawaiʻi National Park, Hawaiʻi 96718-0052. (808) 985-6196

- **Summer Bridge Program (Oʻahu)** at Kapiʻolani Community College offers a four-week course for college freshmen that combines college orientation, study skills instruction, English and math review, and Hawaiian culture studies. Go to: http://kapiolani.hawaii.edu/object/summerbridge.html

- **Keahola STEM Program (UH Hilo)** Dedicated to increasing the enrollment and success of students from underrepresented groups. The Summer Intensive program serves as an academic bridge from high school to university. Go to: http://www2.hawaii.edu/~keaholoa/courses.html

- **Kohala Center (Big Island)** has scholarships for high school students to attend programs on the island and with Brown and Cornell Universities. Go to: www.kohalacenter.org Check calendar for opportunities.

- **Ka ‘Imi ‘Ike (UH Mānoa)** Recruits and retains Native Hawaiians and Pacific Islanders in the geosciences. Paid and credit programs during the summer and scholarships during the year. Go to: http://www2.hawaii.edu/~kaimiike/

- **Summer High School Student Research Apprenticeship Program**, Department of Tropical Medicine/School of Medicine, Dr. George Hui, ghui@hawaii.edu 10-12th grade students are paired with one of University’s faculty members to conduct health related research over 8 weeks. Upon completion of their research activities, the students attend a national symposium held at NIH, Washington, DC, in early August to present their research findings, along with high school students from other states. Go to: http://www.niddk.nih.gov/fund/divisions/omhrc/stusummer.html

- **Talent Development Hawaiʻi (UH Mānoa)** is a summer program for gifted high school students, exposing them to interesting courses beyond and outside the school curriculum in mathematics, computer science, science in space, robotics and ocean engineering, as well as French. Scholarships for students with financial need will be available. Contact Dr. Karl Heinz Dovermann, heiner@math.hawaii.edu. Go to: http://www.math.hawaii.edu/talent

- **UH College of Engineering’s Summer High School Internship Program (Mānoa)** Open to high school juniors. Go to: www.eng.hawaii.edu/events/HSintern
  - APPLICATIONS DUE: April 7th
Tutoring and Mentoring Options in Your Community

- **IsisHawaii** is an online mentoring resource for women and girls. The One+One Program matches high school girls interested in STEM fields with active local professionals in industry through online mentoring relationships. Offline supportive activities include Toy Mod workshops and a new health services job shadowing program currently in development with UH's Center for Nursing and Kahuku High School. Go to: [http://www.isishawaii.org](http://www.isishawaii.org)

- **UH Mānoa College of Engineering High School Internship Program** Interested applicants have an opportunity to work with a faculty mentor. Open to high school juniors or other class standings, if space is available. Learn about engineering first hand with hands on experience in state-of-the-art engineering research facilities. No cost to apply or participate. This is a non-paid internship. Go to: [http://www.eng.hawaii.edu/events/HSintern](http://www.eng.hawaii.edu/events/HSintern)

Science for Everyone – Check these out with your ‘ohana!

- **The Green House (O‘ahu)** — A sustainable living center that offers weekly workshops for others interested in learning how to make the world a better, greener place. The Green House offers classes on an array of eco-friendly subjects, from learning about worm composting to making solar cookers. Email: [www.thehawaiigreenhouse@verizon.net](mailto:www.thehawaiigreenhouse@verizon.net) or call Betty Gearen at 524-8427 for more information. Mail: The Green House 224 Pakohana St. in Pauoa Valley.

- **Moanalua Gardens Foundation (O‘ahu)** - Preserving the native culture and environment of Hawai‘i through education. They offer a school program, Partners in Education, Exploring the Islands distance learning television, resources for teachers, weekend walks into Kamananui Valley, the Ohia Project Curriculum, & the annual Prince Lot Hula Festival. Go to: [http://www.mgf-hawaii.com/](http://www.mgf-hawaii.com/)

- **The Nature Center (O‘ahu and Maui)** - In addition to school programs, the Nature Center provides nature education programs for families and adults on weekends. These include guided interpretive hikes, nature adventures, earth care projects, and more. [http://www.hawaiinaturecenter.org/](http://www.hawaiinaturecenter.org/)

- **Bishop Museum Science Adventure Center (O‘ahu)** Discover the natural wonders of Hawai‘i and the world through science exploration. $8.95 - Kama‘aina, $7.95 kids & seniors. Go to: [http://www.bishopmuseum.org/special/sac.html](http://www.bishopmuseum.org/special/sac.html)
Science for Everyone (cont’d)

- **Mokupapapa Discovery Center for Hawaii’s Remote Coral Reefs (Hilo)**
  Interactive displays, engaging three-dimensional models, and immersive theater about the natural science, culture, and history of the Northwestern Hawaiian Islands and surrounding marine environment. Go to: http://hawaiireef.noaa.gov/center/welcome.html

- **Hanauma Bay Education Program (O’ahu)** Created in order to educate the public on Hawaii’s marine environment and to enhance appreciation and promote understanding and stewardship of Hanauma Bay. They operate community enrichment programs, as well as school programs and teacher workshops. Go to: http://www.soest.hawaii.edu/seagrant/education/HBEP/index.html

- **The Waikiki Aquarium (O’ahu)** - The Waikiki Aquarium is one of the oldest aquariums in the United States, and has been part of the University of Hawai’i since 1919. The aquarium’s exhibits, programs and research focus on the aquatic life of Hawai’i and the tropical Pacific. Open daily 9-4:30 p.m. Go to: www.waikikiaquarium.org

- **Lyon Arboretum (O’ahu)** An independent organized research unit within the University of Hawai’i at Manoa encompassing 193 ½ acres within Mānoa Valley on O’ahu. It boasts one of the largest palm collections in any botanical garden, and major collections of Native Hawaiian, ethnobotanical, tropical and economic plants, as well as many others. Its major research emphases are on developing new plants suitable for Hawaiian gardens, and on utilizing micro-propagation techniques in rescuing endangered Hawaiian plants. Hours: Open daily, 9-4 p.m. Go to: www.hawaii.edu/lyonarboretum

- **’Imiloa Astronomy Center of Hawai’i (Hilo)** Located on a 9 acre campus on the slope of Maunakea, with spectacular views of Hilo Bay, ’Imiloa provides a unique experience for visitors seeking to explore the connections between Hawaiian cultural traditions and the science of astronomy. Go to: www.imiloahawaii.org

- **Hokulani Imaginarium (O’ahu)** - Hawaiian for Starry Heavens, the Hokulani Imaginarium is a state-of-the-art planetarium and multi-media facility located on the Windward Community College campus. The 66-seat theater houses a Digistar II projector with an array of special effects A/V equipment under a 40-foot dome. Each seat is equipped with an interactive control panel so the audience can actively participate in the program. The planetarium also features a variety of historical and cultural presentations such as a tour around archaeological sites like the pyramids or a heiau (ancient grave site). Go to: http://aerospace.wcc.hawaii.edu/imaginarium.html
Science for Everyone (cont’d)

- **Hawai‘i Institute of Marine Biology (O‘ahu)** at Coconut Island, Kane‘ohe - World-renowned research institute with excellent opportunities for coral reef research. [http://www.hawaii.edu/himb/Education/CEP/CEP_home.html](http://www.hawaii.edu/himb/Education/CEP/CEP_home.html)

Public Science Events

- **Astronaut Ellison Onizuka Science Day** - Students, teachers and parents are invited to participate in a special tribute to Astronaut Ellison Onizuka and join the learning and discovery in science during Astronaut Ellison Onizuka Science Day. Go to: [http://www.spacegrant.hawaii.edu/OnizukaDay/](http://www.spacegrant.hawaii.edu/OnizukaDay/)
  - January - Hilo

- **Introduce a Girl to Engineering Day (IGED)** Every February during Engineering Month, Women In Technology partners with the Society of Women Engineers to expose middle and high school students to activities, guest lectures, field trips, role models and related events to foster their interests in engineering. Go to: [www.womenintech.com/engineeringday.html](http://www.womenintech.com/engineeringday.html) & [www.swehawaii.org](http://www.swehawaii.org)
  - February - Statewide

- **AstroDay**, "Bringing Astronomy to the People" features exhibits from the Mauna Kea Observatories, Hawaiian culture exhibits, astronomy vendors, science and cultural presentations, student science projects, scholastic robotics teams, a kids corner, science demonstrations and a free telescope giveaway. Free and open to the public. For more information call 1-808-640-9161, or check the website at: [http://astroday.net](http://astroday.net)
  - May - Hilo

- **College of Engineer’s Engineering Day** Open to high school students interested in the College of Engineering. For more information go to: [www.eng.hawaii.edu/events](http://www.eng.hawaii.edu/events)
  - Late Sept./Early Oct. - UH Mānoa

- **Astronaut Lacy Veach Day of Discovery** Open to all students in grades 4-12, parents and teachers, this free educational program pays tribute to the legacy of Astronaut Lacy Veach, a graduate of Punahou and a veteran of two space shuttle flights, with science and technology workshops, displays, keynote speakers and a closing science demonstration program. Go to: [http://www.spacegrant.hawaii.edu/Day-of-discovery/index.html](http://www.spacegrant.hawaii.edu/Day-of-discovery/index.html)
  - October - Punahou, O'ahu

- **SOEST Biennial Open House** Every odd year the school holds an Open House to which everyone is invited. Come and learn about volcanoes, tsunamis, El Nino, planetary exploration, hurricanes, coastal erosion, marine ecosystems and more. Go to: [http://www.soest.hawaii.edu/openhouse/](http://www.soest.hawaii.edu/openhouse/)
  - October - UH Mānoa
Public Science Events (cont’d)

- **Physics and Astronomy Open House** The public is invited to this annually held event to see physics and astronomy research applications by UH faculty and students. For more information on upcoming events visit: [www.phys.hawaii.edu](http://www.phys.hawaii.edu)
  - November - UH Mānoa

Undergraduate Programs & Opportunities in Hawai’i

- **Hawai’i Space Grant (UH) Internships**, Undergraduate Internships. Hawai’i Space Grant Consortium awards to undergraduate students at the University of Hawai’i system. The awards are given for participation in a semester of STEM-related research at a Hawai’i company and provide a stipend of $3,000 for an initial semester to each recipient. Go to: [http://www.spacegrant.hawaii.edu/internships.html](http://www.spacegrant.hawaii.edu/internships.html)
  - APPLICATION DUE: late February

- **Pacific Internship Programs for Exploring Space (UH Hilo)** - PIPES is a university level program housed within the Pacific Aquaculture and Coastal Resources Center at the University of Hawai’i at Hilo. PIPES is committed to increasing the recruitment and retention of local students into fields of study, and ultimately careers, related to the natural resources of Hawai’i and the Pacific region. Go to: [http://www.uhh.hawaii.edu/uhintern](http://www.uhh.hawaii.edu/uhintern)
  - o APPLICATION DUE: late February

- **Undergraduate Mentoring in Environmental Biology (UH Mānoa)** is an interdisciplinary summer research program in Environmental Science for students from Pacific Islands, funded by the National Science Foundation. Go to: [http://www2.pbrc.hawaii.edu/umeb/](http://www2.pbrc.hawaii.edu/umeb/)

- **Keaholoa (UH Hilo)** To increase enrollment, support, and graduation rates of Native Hawaiian students at UH-Hilo in science & mathematics disciplines, and increase familiarity and the use of related technology. Go to: [http://www2.hawaii.edu/%7Ekeaholoa/](http://www2.hawaii.edu/%7Ekeaholoa/)

- **Ho'okahua (Maui CC)** Offers a student cohort program aimed at improving student retention by providing students opportunities for academic and cultural development. Go to: [http://maui.hawaii.edu/hookahua/index.htm](http://maui.hawaii.edu/hookahua/index.htm)

- **Health Careers Opportunity Program (UH Mānoa)** - This project seeks to increase the number of Native Hawaiians, Filipinos, natives of the US-affiliated Pacific Islands and other individuals from disadvantaged backgrounds in medicine. Go to: [http://www.hawaii.edu/diversity/HCOP/](http://www.hawaii.edu/diversity/HCOP/)
Undergraduate Programs & Opportunities in Hawai‘i (cont’d)

- **Akamai (Maui & Big Island)** has summer internship opportunities at local high tech industries for community college and undergraduate students residing in Hawai‘i. [http://cfao.ucolick.org/EO/internshipsnew/akamai/index.php](http://cfao.ucolick.org/EO/internshipsnew/akamai/index.php)

- **Kōkua A Puni (UH Mānoa)** A Native Hawaiian student services initiative fully funded by the U.S. Department of Education. Kōkua A Puni is here to assist in any way they can, regardless of current major/degree choice. Go to: [www.twitter.com/kokuapuni](http://www.twitter.com/kokuapuni)

- **UH Institute for Astronomy REU** Provides undergraduates who are considering a career in science with the opportunity to engage in research with professional astronomers working on cutting-edge problems in astrophysics. Go to: [http://www.ifa.hawaii.edu/reu/](http://www.ifa.hawaii.edu/reu/)

- **New Opportunities Through Minority Initiatives in Space Science (NOMISS)** Programs and Internships for undergraduate astronomy utilize the resources of the Mauna Kea observatories and University Park base facilities. Go to: [http://hubble.uhh.hawaii.edu/](http://hubble.uhh.hawaii.edu/)

**Service Learning/Volunteer Opportunities** (good to include in resumés) are on page 2 of the Field Trip Resources document in Teacher’s Resources, Section III of this curriculum. See:

- **Hawaii DLNR** - [http://www.state.hi.us/dlnr/Volunteer.html](http://www.state.hi.us/dlnr/Volunteer.html)

- **Hawaii Conservation Alliance** - [http://hawaiiconservation.org/](http://hawaiiconservation.org/)

- **Hawaii Ecosystems at Risk Program** - [http://hear.org/](http://hear.org/)

- **The Nature Conservancy** - [http://www.nature.org/wherewework/northamerica/states/hawaii/](http://www.nature.org/wherewework/northamerica/states/hawaii/)

**Advance Credit Courses to Take While in High School**
See Running Start Program page in this section of the curriculum.

**After School & Weekend Programs**
See Na Pua No‘eau and Public Science Events above.