This class is offered at Women's correctional facility and most unrelevant info is not included (such as websites)

UNIVERSITY of HAWAIʻI
WINDWARD COMMUNITY COLLEGE
Ke Kulanui Kaiāulu o ke Koʻolau

ERTH 101 Introduction to Geology (Dynamic Earth) Lab

Fall 2026

3 Credits | CRN 83463

About Windward Community College

Mission Statement

ʻO keia ka wā kūpono e hoʻonui ai ka ʻike me ka hoʻomaopopo i kō Hawaiʻi mau hoʻoilina waiwai. Aia nō hoʻi ma ke Kulanui Kaiāulu o ke Koʻolau nā papahana hou o nā ʻike ʻake akamai a me nā hana noʻeau. Me ke kuleana koʻikoʻi e hoʻohiki ke Kulanui e kākoʻo a e hoʻokumu i ala e hiki kē kōkua i ka hoʻonui ʻike a nā kānaka maoli. Na mākou nō e hoʻolako, kākoʻo a paipai i nā Koʻolau a kō Oʻahu aʻe me nā hana noʻeau ākea, ka hoʻonaʻauao ʻoihana a me ka hoʻonui ʻike ma ke kaiāulu—hōʻaʻano a e hoʻoulu i nā haumāna i ka poʻokela.

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawaiʻi and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Koʻolau region of Oʻahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

ʻĀina

Windward Community College is located in the ahupuaʻa of Kāneʻohe and Heʻeʻia in the moku of Koʻolaupoko on the island of Oʻahu. Both ahupuaʻa are directly connected to the moʻo ʻōlelo of Pāpa and Wākea, who are seen as the ancestors of the Hawaiian nation. The campus sits beneath the puʻu of Keahiakahoe, which is also connected to many moʻo ʻōlelo of this ʻāina. Because wind names and rain names are associated with specific ʻāina, the rain name of Kāneʻohe is known as the ʻĀpuakea and the rain name of Heʻeʻia is the Ulumano.

Instructor Information

About Your Instructor

My name is Arjun Aryal. I received my PhD in Geophysics from the University of Hawaii in Hawaii, USA, in 2013. Before joining UH, I earned an MPhil in GIS and Remote Sensing from the University of Cambridge, England, and an MS in Geology from Purdue University, Indiana. My research and experience include understanding geologic processes, such as landslides and earthquake cycles, using data from GPS, radar satellites, laser scanners, and computer models. I have conducted significant geologic fieldwork in many parts of the world, including the Himalayas, the US mainland, Alaska, Europe, and Hawaii. I was part of an Ocean mapping

program and participated in a French Oceanographic Research Cruise. I am also actively involved in many charitable activities (mostly education-related) in many parts of the world. You can see more about my professional background at https://www.linkedin.com/in/arjunaryal/. Not all of them are updated, though.

I believe that teaching and learning are active, two-way processes. My goal is to support and facilitate student growth, which means **what you learn is far more important than what I teach.** I invite you to engage in discussions, ask 'why,' and challenge ideas. Your active participation and curiosity are what make this course successful and are my greatest sources of motivation as an educator.

How to Contact Your Instructor

Instructor Name: Dr. Arjun Aryal
Email: aryal@hawaii.edu

Contingency Plan

If there is an outage, weather situation, or family emergency on my end, I will do my best to find a way to communicate an update as soon as possible about my return to the course. Mahalo in advance for your understanding and I hope you will do the same.

Course Format & Structure

This course is offered in a 16-week hybrid time frame. Please note that this is not a self-paced course; our course schedule is provided in this syllabus.

- Content release: Content or weekly modules are released before Monday of the week.
- This is a hybrid course: meet in class every Tuesday and complete the rest online.

Participation Verification

Campuses are required by federal regulations to verify the participation of students in their classes. In accordance with Executive Policy 7.209, all students in the University of Hawai'i system are required to establish "participation" to ensure that they are not dropped from their class(es). Effective Fall 2021, students who fail to participate by the late registration period for a class will be administratively dropped from that class. Students may also be dropped from dependent prerequisite and/or corequisite classes if both courses do not establish participation.

Course Information

Catalog Description

Hands-on study of minerals, rocks, and topographic maps. Examine volcanism, hydrology, coastal processes and hazards, geologic time and earthquakes. Field trips to investigate landslides, beaches and O'ahu geology. WCC:DY

Pre(or Co)-requisites - ERTH 101 or ERTH 103.

Student Learning Outcomes

Students can expect to attain the following outcomes as a result of taking this course:

1. Students can explain the relevance of geology and geophysics to human needs, including those appropriate to Hawaii, and be able to discuss issues related to geology and its impact on society and planet Earth.

2. Students can apply technical knowledge of relevant computer applications, laboratory methods, and field methods to solve real-world problems in geology and geophysics.

3. Students use the scientific method to define, critically analyze, and solve a problem in earth science.

4. Students can reconstruct, clearly and ethically, geological knowledge in both oral presentations and written reports.

5. Students can evaluate, interpret, and summarize the basic principles of geology and geophysics, including the fundamental tenets of the sub-disciplines, and their context in relation to other core sciences, to explain complex phenomena in geology and geophysics.

Course Materials

Textbook: Introductory Physical Geology Laboratory Manual for Distance Learning, Second Edition, ISBN: 979-8-4652-3851-2634-7 [**Required**].

Grading Policy

Grading will be based on the following points of distribution

Quiz	25%
Homework	25%
Midterm exam	25%
Final exam	25%
Class participation	3% (extra credit)

Letter Grade Breakdown: A = 90%+; B = 80 – 89%; C = 70 – 79%; D = 60 – 69%; F = < 60%
Please check your grade book in Lamakū regularly.

Make-up Exams/Early Exams: If such a situation arises, please contact your instructor. Note that make-up and/or early exams might be in essay format and may be substantially more time-consuming.

Late Assignments will get partial credit. 0.5% off every day you are late.

Students involved in academic dishonesty will receive an "F" grade for the course. Academic dishonesty is defined in WCC's college catalog.

Course Schedule

Students may check the Windward Student Notifications page on the website for canceled classes and/or school closures. Academic Integrity

Topics and Tentative Class Schedule

Week #, day(s)	Topic	Due*
1, Aug [27]	Setting the Stage, Plate Tectonics	Participation verification
2, Sep [3]	Plate Tectonics	Qz1, Lab 1
3, Sep [10]	Minerals	Qz2, Lab 2
4, Sep [17]	Igneous rocks and volcanism	Qz3, Lab3
5, Sep [24]	Sedimentary Rocks	Qz4, Lab 4
6, Oct [Oct1]	Metamorphism and Metamorphic Rocks	Qz5, Lab 5
7, Oct [8]	Geologic Structures and Mountain Formation	Qz6, Lab 6
8, Oct [15]	Earthquake and Seismology	Qz7, Lab 7
9, Oct [22]	**Midterm**	Midterm
11, Oct [29]	Geologic Time	Qz8, Lab 8
12, Nov [5]	Mass Wasting	Qz9, Lab 9
13, Nov [12]	Topographic Map	Qz10, Lab10
14, Nov [19]	Streams and Groundwater	Qz11, Lab11
15, Nov [26]	Glaciers	Qz12, Lab12
16, Dec [3]	Coastline	Qz13, Lab13
17, Dec [10]		
18. Dec 15	**Final – Chapters 12-21**	Final (non-cumulative)

*Assignments are available on Monday and due on Saturday. Late assignments are accepted for partial credit (deduct 0.5% per day).

Academic Integrity

Work submitted by a student must be the student's own work. The work of others should be explicitly marked, such as through the use of quotes or summarizing with reference to the original author.

In this class, students who commit academic dishonesty, cheating, or plagiarism will have the following consequence(s):

- Students will receive a failing grade for plagiarized assignments.
- All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

Windward CC Student Conduct Information

UH System Student Conduct Policy EO 7.208

Use of AI tools – AI will be used in this class as a learning tool, and students can use it for learning purposes. Students are permitted to integrate AI into some substantive tasks, such as data analysis or spreadsheet creation. Students are encouraged to keep drafts of assignments and logs of interactions with AI applications to demonstrate their contribution to an assignment and check what is permissible for each assignment. Use of AI may be required in the course, but students are not permitted to use AI to complete their writing assignments.

Student Kuleana

- Please review our Hawai'i-Style Netiquette, which blends the values of ALOHA with approaches to how we should consider treating each other online.
- Online discussion needs to be relevant to the course and culturally respectful.
- Windward CC has Grievance Procedures in place, but I encourage us to try to work together first to see if we can work through any troubles. Mahalo!

Academic and Technical Support

Academic Support

- Windward Community College Library
- Library eResources
- Library Research Units (LRUs)
- Ka Piko Tutoring Services: Math Lab, Speech Lab, Writing Lab, 'Ōlelo Hawai'i Lab
- Online Learning at Windward Community College
- STAR Balance

Technical Support

- UH ITS Help Desk: email help@hawaii.edu or call (808) 956-8883 (or 1-800-558-2669) for Lamakū and most technology support. Available 24 hours a day, 7 days a week, including holidays.

- Student Tech Support: email winhelp@hawaii.edu, call (808) 235-7437, or stop by in person at Hale Laʻakea 228. Available Monday–Friday from 8:00 am–4:00 pm.
- Lamakū: Click on the Lamakū Help link in the menu bar at the top of the Lamakū homepage to fill out and submit a question and get your answer via email.
- Information Security for Students

College Policies & Support Services

Your instructor may also provide additional resources in your Lamakū course.

Basic Needs

Basic needs include food and housing, childcare, mental health, financial resources, and transportation. Student basic needs security is critical for ensuring strong academic performance, persistence and graduation, and overall student well-being. If you or someone you know is experiencing basic needs insecurity, please see the UH System Basic Needs.

Disabilities Accommodations Statement

Windward Community College's Disability Student Services Office (WCC-DSSO) is committed to providing equal access to qualified students with disabilities.

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to participate fully in this class, you are encouraged to contact the Disability Specialist Counselor, Roy Inouye, to discuss reasonable accommodations that will help you succeed in this class. The Disabilities Counselor can be reached at (808) 235-7448, wccdsso@hawaii.edu, or stop by the office (Hale Kakoʻo 106) for more information.

Financial Aid

If you are receiving financial aid and are contemplating not completing the course it is highly recommended that you contact the Financial Aid Office at (808) 934-2712 or email them at wccfao@hawaii.edu ***BEFORE*** you withdraw to discuss the impact this decision may have on your financial aid eligibility.

LGBTQ+

The University of Hawaiʻi system and Windward Community College are committed to building an inclusive community that supports and advocates for all students, staff, and faculty. We welcome all members of our campus community to our campuses: transgender, māhū, and people of all gender identities. All members of our campus community deserve a work and educational environment free from harassment or bullying based on their sexual orientation, gender identity, or expression. For more information, see the University of Hawaiʻi Commission on LGBTQ+ Equality. Windward Community College Commissioner: Scott Sutherland, scottjks@hawaii.edu

Mental Health Counseling

Mental Health and Wellness at Windward Community College provides counseling services and activities on campus to support students' life goals as well as their academic goals. Information about services can be found at WCC Mental Health & Wellness.

Student Conduct Code

Windward Community College follows the University of Hawai'i Code of Student Conduct which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Code of Student Conduct since, upon enrollment at Windward Community College, they have placed themselves under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Office of the Vice Chancellor for Student Affairs. Copies of the Student Conduct Code are available at the Office of the Vice Chancellor for Student Affairs.

TRiO Program

The Federal TRiO Programs are educational opportunity outreach programs designed to motivate and support students from disadvantaged backgrounds. TRiO includes six outreach and support programs targeted to serve and assist low-income, first-generation college students and students with disabilities in progressing through the academic pipeline from middle school to post-baccalaureate programs. Information about services can be found at Windward CC TRiO.

Title IX - Sex Discrimination And Gender-Based Violence Resources

Windward Community College is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking.

If you or someone you know is experiencing any of these, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

Desrae Kahale, UH System Confidential Advocate
Phone: (808) 235-7393
Email: advocate@hawaii.edu
Office: Hale Kākoʻo 101

Desrae Kahale, Mental Health Counselor & Confidential Resource
Phone: (808) 235-7393
Email: dkahale3@hawaii.edu
Office: Hale Kākoʻo 101

Mykie E. Menor Ozoa-Aglugub, J.D., Title IX Coordinator
Phone: (808) 235-7468
Email: mozoa@hawaii.edu
Office: Hale Kākoʻo 109

Karen Cho, Deputy Title IX Coordinator
Phone: (808) 235-7404
Email: kcho@hawaii.edu
Office: Hale ʻAlakaʻi 120

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, refer to the University's Title IX resources, and the Universityʻs Policy, EP 1.204.

UH Alerts

The UH Alert emergency notification system alerts the university community in the event of a natural, health or civil emergency. The information you provide will only be used in the event of an emergency that impacts the health and safety of the UH community or the closure of whole campuses. It will not be shared with others or used for routine UH communications or announcements. To sign up, visit UH Alerts for more information.