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

MATH 100, Survey of Mathematics

Fall 2026

3 Credits | CRN 62449 | Asynchronous Online (WWW)

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.

Instructor Information

About Your Instructor

Robert Garry teaches mathematics as a connected human story rather than a collection of isolated rules. In Math 100, we will build a big picture of mathematics across times, places, and cultures while developing practical quantitative and logical reasoning skills.

How to Contact Your Instructor

Robert Garry, Mathematics Instructor

Virtual Office: Zoom (links emailed to students)

Office Hours: Tuesday and Thursday, 11:00 a.m.-12:00 p.m.

Phone: (808) 339-1483

Email: rgarry@hawaii.edu

Asking Course Questions

Please use the course Q&A in Lamakū Discussions for general questions about content, activities, due dates, navigation, and grading procedures. Email specific grading questions or personal matters through Lamakū Email to protect your privacy under FERPA.

Alternate Contact Information

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

- Location: Alakaʻi 121
- Phone: (808) 235-7422

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 is a 16-week asynchronous online course running August 24 through December 18, 2026. It is not self-paced. Students should follow the weekly modules, suggested assignment dates, and due dates posted in Lamakū.

Two Tracks, One Story

This course runs on two complementary tracks. Both lead toward the question you will answer at the end of the semester: “What is Mathematics?”

Track 1 - The Textbook Track: The MyLab Math work in logic, elementary functions, personal finance, probability, and statistics builds procedural skill through standard mathematical problems.

Track 2 - The Story of Mathematics (AI-assisted) Track: Written explorations use AI as a research and writing tool to examine mathematics across five time periods: prehistory; early civilizations; Greek mathematics; the Renaissance and Enlightenment; and modern mathematics, computing, and AI.

AI Explorations are submitted in the written-assignment folder in Lamakū. They connect the procedures in Track 1 to the people, cultures, needs, questions, and discoveries that shaped mathematics.

Regular Substantive Interaction (RSI)

Online courses at Windward Community College follow the college’s Regular Substantive Interaction definition. You can expect frequent and timely instructor engagement through the following:

Announcements and course guidance in Lamakū.

Feedback on MyLab Math work and written AI Explorations.

Responses to course Q&A posts and individual Lamakū email.

Optional Zoom office hours on Tuesdays and Thursdays.

Individual check-ins and support when course progress indicates assistance may be helpful.

All course activity due dates are listed in Lamakū. Check UH email often and set Lamakū notifications, including the Brightspace Pulse App if desired, to receive course notices.

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

MATH 100: Survey of Mathematics (3 credits). An introduction to quantitative and logical reasoning for the nonscience/nonmathematics major. The question "What is Mathematics?" is explored while focusing on mathematical systems or models, cultivating an appreciation of mathematics, and developing skills in problem solving and communication.

Prerequisite(s): C or better in MATH 25, 26, 28, 29, 75X or higher or equivalent; a satisfactory mathematics placement score; or consent of instructor.

Student Learning Outcomes

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

Utilize basic skills and/or tools related to the topics covered in the course.

Employ symbolic and mathematical techniques to solve applied problems.

Use precise mathematical language and symbols to communicate mathematics effectively in written and/or oral form.

Course Materials & Technology

Required

Thinking Mathematically, 8th edition, Robert F. Blitzer (eText included with MyLab Math access).

MyLab Math access through VitalSource for UH. Use the course Getting Started video for activation instructions.

Desmos scientific calculator and Desmos graphing calculator (free; links provided in External Resources).

Regular access to a computer with a reliable internet connection. A desktop or laptop is necessary for MyLab Math and written assignments.

Windward offers free laptop and Wi-Fi hotspot checkout on a first-come, first-served basis; see Ka Piko Student Tech Support.

Recommended

D2L Brightspace Pulse App (free from major app stores).

UH Mānoa Online Learning Academy and Windward tutoring services for additional mathematics support.

Lamakū Learning Management System (https://lamaku.hawaii.edu/d2l/home)

Learn about the Hawaiian meaning of the word "lamakū": Lamakū Pronunciation, Meaning, and Importance.

- UHCC Lamakū Student Resources (how-to videos)
    - Contact UH ITS for 24/7 Lamakū assistance.
- Keeping Accessibility and UDL in Mind
    - If you find any course content that needs remediation and/or updating, please kindly share and I will immediately work to make the content accessible.
- Lamakū courses will appear 5 days before the first day for the academic term and will become inactive (no longer be available to access) 3 weeks after the end of the term. Be sure to save any coursework you may need from Lamakū *during* the term.
- Lamakū automatically logs you out *if it does not detect activity for three hours*. A warning message will appear, notifying you of the lack of activity. Activity is defined as clicking a button in Lamakū, such as "Save Draft" or "Next" (in a test), clicking on a course tab, or taking an action that sends information to the server.

Other Technology

Use a current version of Google Chrome, Mozilla Firefox, Microsoft Edge, or Apple Safari. At the start of the term, update your browser, permit required pop-up windows, and restart your device when troubleshooting.

Course technologies include Lamakū, MyLab Math/VitalSource, Desmos, Zoom, UH email, and an instructor-approved generative AI system for designated explorations. Review each service's privacy and accessibility information, and contact the instructor if you need to discuss an alternate option.

Course Activities & Grading Policy

Assignments must be completed by the end of the course to receive credit. Follow the suggested dates in Lamakū to make steady progress. The oral final is taken by Zoom appointment during the final week of class.

MyLab Math homework develops procedural fluency. AI Explorations develop research, interpretation, mathematical communication, and connections across the human story of mathematics. The midterm checks progress and understanding. The final asks you to explain your answer to “What is Mathematics?” using your written work and explorations.

Course Activity	**Points / Final Grade**
MyLab Math homework	400 points / 40%
AI Explorations	400 points / 40%
Midterm exam (optional oral format)	100 points / 10%
Final oral exam	100 points / 10%

Grading Scale

A: 90%-100% of the total possible points

B: 80%-<90%

C: 70%-<80%

D: 60%-<70%

F: <60%

Cr: 70%-100%; NC: <70%

Students must apply for the Cr/NC option through the appropriate admissions process by the published deadline. A W is assigned only when a student officially withdraws by the published deadline.

Assessment, Tasks, and Grading

The course includes 1,000 total points:

MyLab Math homework - 400 points (40%).

AI Explorations submitted in Lamakū - 400 points (40%).

Midterm exam, with optional oral format - 100 points (10%).

Final oral exam: explain “What is Mathematics?” using your written assignments and explorations - 100 points (10%).

These activities support transferable skills in quantitative reasoning, problem solving, research, critical evaluation of AI output, and clear mathematical communication. Historical and cultural explorations emphasize that mathematics has carried different meanings and purposes across times, places, and cultures.

Activities Required at Scheduled Times Other than Class Times

The final oral examination requires an individual Zoom appointment during the last week of class. Optional office hours and any optional oral midterm appointments are arranged through Zoom.

Course Schedule

Students may check the Windward Student Notifications page on the website for canceled classes and/or school closures. The course schedule updates are found on Lamaku.

Week	Date	Module / Topic	Due Dates
1	8/24/26	Orientation; MyLab Math and Lamakū; What Is Mathematics?	See Lamakū Calendar for assignments and due dates.
2	8/31/26	Prehistory: patterns, counting, time, and early wayfinding	See Lamakū Calendar for assignments and due dates.
3	9/7/26 (holiday)	Early civilizations: numeration systems and calendars	See Lamakū Calendar for assignments and due dates.
4	9/14/26	Early geometry: measurement, building, astronomy, and navigation	See Lamakū Calendar for assignments and due dates.
5	9/21/26	Logic and mathematical language	See Lamakū Calendar for assignments and due dates.
6	9/28/26	Greek mathematics: proof, Pythagoras, and Euclid	See Lamakū Calendar for assignments and due dates.
7	10/5/26	Analytic algebra: graphs and Elementary functions,	See Lamakū Calendar for assignments and due dates.
8	10/12/26	Mathematical modeling with Elementary functions	See Lamakū Calendar for assignments and due dates.
9	10/19/26	Midterm and progress conference	See Lamakū Calendar for assignments and due dates.
10	10/26/26	Personal finance: interest, loans, and annuities	See Lamakū Calendar for

Week	Date	Module / Topic	Due Dates
			assignments and due dates.
11	11/2/26	Renaissance and Enlightenment: Inductive Logic and thescientific method	See Lamakū Calendar for assignments and due dates.
12	11/9/26	Probability and probability models	See Lamakū Calendar for assignments and due dates.
13	11/16/26	Statistics: data, distributions, and interpretation	See Lamakū Calendar for assignments and due dates.
14	11/23/26	Modern mathematics: computers, big data, and AI	See Lamakū Calendar for assignments and due dates.
15	11/30/26	Synthesis: developing your answer to “What Is Mathematics?”	See Lamakū Calendar for assignments and due dates.
16	12/7/26	Final preparation and individual oral examinations	See Lamakū Calendar for assignments and due dates.
Finals	12/14/26 - 12/18/26	Final oral examinations and course completion	See Lamakū Calendar for assignments and due dates.

Academic Integrity

Windward CC Student Conduct Information

UH System Student Conduct Policy EO 7.208

In general, work submitted by a student must be the student’s own, original work. The work of others should be properly acknowledged, explicitly marked and cited, through the use of quotes and/or summarized reference to the original author via the appropriate citation style indicated by your instructor.

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.

Artificial Intelligence (AI)

UH Executive Policy 2.220 Artificial Intelligence and the Windward CC Library AI Essentials guide provide the broader framework for responsible AI use.

AI use is permitted and expected for designated AI Explorations. In these assignments, AI may help you generate questions, locate starting points, explore mathematical ideas, organize an outline, and review a draft. Your submitted work must still represent your own understanding and voice.

AI is not a substitute for doing MyLab Math problems, demonstrating individual mastery on exams, or participating in the oral final. Assignment directions in Lamakū will identify the permitted level of AI use. When directions differ from this general statement, the assignment directions govern.

AI output can be inaccurate, fabricated, biased, or out of date. Treat it as material to investigate—not as an authority. Keep a record of useful prompts and verify mathematical claims, computations, quotations, and sources before submitting work.

Your Responsibility with AI:

- ***Verification:*** You must verify the accuracy of all submitted content. Never assume AI data is correct.
- ***Scientific Reasoning:*** Your work must reflect your own ideas and critical-thinking skills. Understanding and intention comes from working through the problems and data yourself, and avoiding this could render your methods meaningless.
- ***Ethics & Integrity:*** You must be mindful of how AI usage can coincide with scientific ethics. Do not input sensitive data or proprietary information into AI tools. Avoid using AI in a way that will generate falsified or fabricated results.

Instructors choosing to use AI should refrain from sharing or inputting student work into online AI tools, including AI detection tools, without obtaining student consent. Uploading student work has potential FERPA implications as well as potential copyright concerns. Additionally, the uploaded content could be used as data for AI training without the student's consent.]

Student Kuleana

Please review Hawai'i-Style Netiquette, which blends the values of ALOHA with thoughtful ways of treating one another online.

Success in this course is strengthened by an open mind; a willingness to explore mathematics in new ways; consistent reading and practice; responsible use of technology; timely completion of assignments; and seeking assistance from the instructor, tutors, or Math Lab when needed.

Windward CC has grievance procedures in place, but I encourage us to communicate and work together first when concerns arise. 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, ʻŌlelo Hawaiʻi 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 Hawai'i 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 Hawai'i 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.