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

Math 135 Precalculus: Elementary Functions

Fall 2026

Monday & Wednesday, 12:00 - 1:15 pm

Classroom: Manaʻopono 114

3 Credits | CRN 62410

* This syllabus and/or our Course Schedule is subject to change at any time. I will notify you of any changes via email. Mahalo!

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

Aloha, I'm Bethany Hopkins, your instructor for this course. I have been teaching mathematics in the University of Hawai‘i system since 2022. I earned both my undergraduate and graduate degrees in mathematics and education from Providence College in my home state of Rhode Island. Outside of teaching, I enjoy spending time with my family, traveling, and staying active through hiking, surfing, and fishing.

How to Contact Your Instructor

Bethany Hopkins, Instructor, Math & Business Department

- Virtual Office: ZOOM: https://hawaii.zoom.us/j/85885822458
- Office Hours: Tuesday 9:00-10:00 am (via Zoom), Monday & Wednesday 11:00 am-12:00 pm (in person)
    - Office: Hale Mana‘opono 112A Office Phone: (808)236-9282
- Email: hopkinsb@hawaii.edu

Response time: I generally respond to emails and Q&A within 24 hours, excluding weekends and holidays.

Asking Course Questions

Please use course Q&A in Lamakū Discussions for all general course questions about content, activities, due dates, how work will be graded, etc. I will check Q&A daily, Monday-Friday by 4:00 PM, and provide follow-up information there.

Email specific grading questions and/or personal matters, per FERPA, to keep your information protected. Please use Lamakū Email instead of UH Gmail or other email.

* While Lamakū has an Instant Message feature, I prefer email. Please feel free to use Instant Message to communicate with your classmates if you like.

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: Alaka‘i 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 an in-person class, and students are expected to take notes in a notebook, binder, or electronic device. Students are expected to interact with the instructor and other members of this class with professionalism.

Regular Substantive Interaction (RSI)

Online courses at Windward Community College follow the college's RSI Definition for ensuring quality instruction. You can expect me to communicate with you frequently (and in a timely fashion) about our coursework in the following ways during our 8-week course:

There are several ways to communicate in this course:

- *Email:* Email through Lamakū is preferred. My normal work hours are Monday through Friday, 8:00 AM to 4:00 PM. I will respond within 24 hours, excluding weekends and holidays.
- *Voicemail:* You may leave a voicemail on my office phone.
- *Office Hours:* Drop-in Zoom office hours every Tuesday, 9:00 am - 10:00 am. In-person office hours are Monday and Wednesday, 11:00 am-12:00 pm. No appointment is necessary. If you would like to meet at a different time, email me to schedule an appointment.
- *In-class discussions/questions.*
- *Q & A Lamakū Discussion Board:* You may post general questions about the course, homework, etc., to the Q & A forum. This is a public space where both students and the instructor can respond. Note: For private communication, please use email.

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

Investigates linear, quadratic, polynomial, rational, exponential, logarithmic functions, and related topics. This course is the first part of the precalculus sequence.

Prerequisites: Grade of "C" or better in MATH 103 or equivalent, satisfactory math placement test score, or consent of instructor.

Student Learning Outcomes

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

1. Use appropriate symbolic techniques to analyze and solve application problems.
2. Utilize elementary function concepts.
3. Graph elementary functions utilizing behavior information and/or transformations.
4. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

Note: All SLO assessments are embedded in homework, quizzes, or exams.

Foundations Quantitative Reasoning Hallmarks

Math 135 fulfills 3 credits of the General Education requirements (Foundations Quantitative Reasoning) for both an A.A. degree at WCC and a Bachelor's degree at 4 year UH institutions. Consequently, it meets the following hallmarks of the Quantitative Reasoning requirement:

1. Provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approaches used in the course.

2. Include application of abstract or theoretical ideas and information to the solution of practical quantitative reasoning problems arising in pure and applied research in specific disciplines, professional settings, and/or daily and civic life.

3. Provide opportunities for practice and feedback that are designed to help students evaluate and improve quantitative reasoning skills by including a course component at least once per week with a maximum 30:1 student-to-teacher ratio.

4. Be designed so that students will be able to

   a. Identify and convert relevant quantitative information into various forms such as equations, graphs, diagrams, tables, and/or words;

   b. Select appropriate techniques or formulas, and articulate and evaluate assumptions of the selected approaches.

   c. Apply mathematical tools and perform calculations (including correct manipulation of formulas);

   d. Make judgments, create logical arguments, and/or draw appropriate conclusions based on the quantitative analysis of data, the assumptions made, the limitations of the analysis, and/or the reasonableness of results; and

   e. Effectively communicate those results in a variety of appropriate formats.

Course Materials & Technology

Required

- Scientific calculator

- MyLab Math (MLM) via IDAP:

The MyLab Math (MLM) Online Program comes with the eBook *Graphical Approach to Precalculus with Limits*, 7th Edition, by Hornsby, Lial & Rockswold. MLM registration will be through IDAP via the VitalSource link in Lamaku.

This course will be participating in the Bookstore's Interactive Digital Access Program (IDAP). Through this program, you will access your course material digitally, and it will be available to you by the first day of class.

A charge for the digital course material through IDAP will be added to your MyUH account.

To get started,

- Open our course in Lamaku and click on the "VitalSource" link in the module menu.
- Click on VitalSource Windward CC.
- Click on Launch Courseware.
- Select the yellow bar that says Open MyLab/Mastering.
- Follow the on-screen instructions to register for Pearson MyLab.

You have the option to opt-out of receiving your course material through IDAP. By opting-out, you will lose access to the course material and the charge will be refunded on your MyUH account. If you do not opt-out, the charge will stay on your MyUH account. Any unpaid charges on your MyUH account will turn into a hold. Holds on your account will prevent you from accessing various services within the University.

You may opt-out by visiting your unique Inclusive Access Student Portal, which can be found in your IDAP welcome email (Subject Line: "IMPORTANT: You have enrolled in an IDAP Course").

For more information regarding IDAP, please contact your campus bookstore.

- Regular access to a computer with internet (desktop or laptop).
    - Windward offers free laptop and WiFi hotspot check-out to students (first-come, first-served), as well as software and other tech discounts; see Ka Piko Student Tech Support for information.
    - UH Online provides an online learning Readiness Activity and an Orientation to Online Learning that Windward CC students may take to see if online learning is a good fit.
- Additional required MATH 135 materials will be posted in Lamakū Content.

Recommended

- D2L Brightspace Pulse App (free download from app stores)
- Symbolab: https://www.symbolab.com
- Wolfram Alpha: http://www.wolframalpha.com
- Desmos Graphing Calculator: https://www.desmos.com
- Khan Academy Videos: http://www.khanacademy.org

- Tutor.com: https://windward.hawaii.edu/tutor.com/

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

D2L Brightspace, the parent company of Lamakū, recommends users choose the latest versions of Google Chrome, Mozilla Firefox, Microsoft Edge, or Apple Safari as their internet browser.

We recommend that students update their internet browser at the start of each term, search how to allow pop-up windows, adjust their cookies, and clear device history. Also, fully restart your computer and/or device from time-to-time to optimize performance.

Review the privacy/security policies before using the technologies we will be using in this class. Contact me if you would like to discuss the use of alternate options or technologies.

- Adobe Reader is used to read course files (accessibility statement, privacy policy)
- Google Drive is UH-provided cloud storage (accessibility statement, privacy policy)
- Google Docs is used to create documents (accessibility statement, privacy policy)
- Google Sheets is used to create assignment and reference worksheets (accessibility statement, privacy policy)
- Google Slides is a presentation authoring software provided by UH (accessibility statement, privacy policy)
- Kahoot! is used for review activities (accessibility statement, privacy policy)
- Loom is used for screen recording (accessibility statement not provided, privacy policy)
- YouTube is used for delivering some of the course content (accessibility statement, privacy policy)
- Zoom is used for the Synchronous Sessions and virtual office (accessibility statement, privacy policy)

Course Activities & Grading Policy

A letter grade for the course will be assigned according to the level of achievement as provided in the table below:

GRADE	DEFINITION
A	90% - 100% of the total possible points
B	80% - 89% of the total possible points
C	70% - 79% of the total possible points
D	60% - 69% of the total possible points
F	Less than 60% of the total possible points
Cr	70% - 100% of the total possible points
NC	Less than 70% of the total possible points
I	Incomplete
W	Official Withdrawal

Note: Students must apply for the Cr/NC grading option at the Admissions Office. Consult the WCC Catalog for deadlines.

Note: W grade is given only when the student officially withdraws from the course at the Admissions Office. Consult the WCC Catalog for deadlines.

Note: The I grade is a temporary grade given at the instructor's discretion when a student has failed to complete a small part of a course because of circumstances beyond his or her control. A student may qualify for the I grade if (a) they are unable to take the final exam and (b) taking the final exam could possibly raise their course grade.

All grades and course materials will be accessed through Pearson MyLab Math and Lamaku. **To view your overall grade in the course, log in to MyLab Math and click on Gradebook in the left-side menu**. The grade breakdown will be as follows:

Grading Scale

Course Activity	Points/Percentage of Final Grade
Final Exam	15%
3 Tests	40%
6 Quizzes	15%
MyLabMath (MLM) Homework	30%

Assessment, Tasks, and Grading

Tests: There will be 3 in-class tests as noted on the course calendar. You are permitted to use a scientific calculator on tests. In the event of an emergency, you need to email me ASAP so that we can make arrangements for a make-up test in the WCC Testing Center. All tests need to be completed by the end of the course.

MLM Homework: Computer-based homework is due through the MLM program. There will be a 10% grade deduction for problems submitted after the due date. The final date of submission for late homework is 12/14/2026. You have unlimited attempts at homework problems, and your highest score will be saved.

Quizzes: There will be 6 computer-based quizzes through MLM. The quizzes are due on Sundays, but you may take them on any day or time. The quizzes are timed (1 hour). The quizzes are not proctored and can be taken on any computer. You will have 2 attempts for each quiz, and I will take the highest score.

Final Exam: There will be one cumulative paper and pencil final exam on Monday, December 14th. You may use a scientific calculator on the final exam.

Course Schedule

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

Week	Dates	Topics	Assignments (MyLabMath work is due Sundays at 11:59 PM)
1	8/24	Sets & Interval Notation	MyLabMath Orientation, R.1
	8/26	Polynomials & Factoring	R.2/R.3
2	8/31	Rational Expressions	R.4
	9/2	Exponents & Radicals	R.5, R.6
3	9/7	**Labor Day - No Class**	

Week	Dates	Topics	Assignments (MyLabMath work is due Sundays at 11:59 PM)
	9/9	The Coordinate Plane	Quiz 1, 1.1
4	9/14	Relations & Functions	1.2
	9/16	Linear Functions & Equations of Lines	1.3, 1.4, Quiz 2
5	9/21	Linear Equations & Inequalities	1.5
	9/23	Linear Applications, Test 1 Review	1.6
6	9/28		**Test 1 (in class)**
	9/30	Graphs & Symmetry	2.1
7	10/5	Transformations of Graphs	2.2, 2.3, Quiz 3
	10/7	Absolute Value Functions & Piecewise Functions	2.4, 2.5
8	10/12	Function Operations & Composition	2.6, Quiz 4
	10/14	Circles & Quadratic Functions	3.2
9	10/19	Solving Quadratic Equations	3.1, 3.3
	10/21	Applications of Quadratic Functions, Test 2 Review	3.4
10	10/26		**Test 2 (in class)**

Week	Dates	Topics	Assignments (MyLabMath work is due Sundays at 11:59 PM)
	10/28	Graphs of Polynomial Functions, Synthetic Division	4.1, 4.2
11	11/2	Zeros of Polynomials, Polynomial Inequalities	4.3, 4.4, Quiz 5
	11/4	Rational Equations & Graphs	5.1, 5.2
12	11/9	Rational Equations, Power and Root Functions	5.3, 5.4, 5.5
	11/11	**Veterans Day - No Class**	
13	11/16	Review for Test 3	
	11/18		**Test 3 (in class)**
14	11/23	Inverse Functions & Exponential Functions	6.1, 6.2
	11/25	Properties of Logarithms	6.3, Quiz 6
15	11/30	Logarithmic Functions, Exponential & Log. Equations	6.4, 6.5
	12/2	Logarithmic and Exponential Applications	6.6
16	12/7	Final Exam Review	
	12/9	Final Exam Review	
Finals	12/14	**Final Exam**	Final Exam is Monday, Dec. 14th at 12:00 pm in our classroom

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

The Windward CC Library AI Essentials Library Guide provides guidance and has helpful resources for both instructors and students.

AI use is permitted in this course.

You are welcome to use AI tools (such as ChatGPT) to ask general questions, review concepts, or get extra explanations while studying. However, all graded work, including homework, quizzes, tests, and exams, must be completed on your own. Submitting AI-generated answers as your own work is considered academic dishonesty.

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.
- Have access to a reliable high-speed internet connection .
- Have adequate computer skills.
- Check Lamakū regularly.
- Check school emails regularly.
- Be self-motivated.
- Set aside adequate study time.
- 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, 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 University's 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.