



UNIVERSITY of HAWAII®
WINDWARD
COMMUNITY COLLEGE

MATH 103 College Algebra

4 Credits (CRN 63169)

Online, Asynchronous

MATH 88 College Algebra Companion

2 Credits (CRN 63168)

Online, Synchronous. Class meets virtually via Zoom on Fridays 10:00-11:50 am. Click [here](#) to join the classroom.

INSTRUCTOR: Bethany Hopkins
OFFICE: Hale Mana‘opono Room 112A
OFFICE HOURS: Tuesdays 10:00-11:00 am via [Zoom](#) , or by appointment
TELEPHONE: (808) 236-9282
EMAIL: hopkinsb@hawaii.edu (preferred method of communication. Please include Math 103 in the subject line)
EFFECTIVE DATE: Fall 2022

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

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

CATALOG DESCRIPTION

Math 103 investigates linear equations, inequalities, systems of equations, polynomials, functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions.

Pre-Requisite(s): "C" or better in MATH 25, 26, 29, 82 or equivalent, satisfactory math placement test score, or consent of instructor.

Co-Requisite: Enrollment in MATH 88 CRN 63168

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to attain the following outcomes:

1. Graph or interpret algebraic relations that are relevant to the topics in this course
2. Employ algebraic techniques to find the solutions to equations or inequalities, or systems of equations or inequalities appropriate to the level of this course
3. Use algebraic techniques to analyze and solve applied problems
4. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form

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

STUDENT RESPONSIBILITIES

- Have access to a reliable high-speed internet connection
- Have adequate computer skills
- Check Laulima daily
- Check school emails regularly
- Be self-motivated
- Set aside adequate study time

FOUNDATION QUANTITATIVE (FQ) REASONING HALLMARKS

Math 103 also fulfills 4 credits of the General Education requirements (Foundations Quantitative) for both the AA degree at WCC and a Bachelor's degree at UH Manoa. Consequently, it meets the hallmarks of the quantitative reasoning requirement.

The course will:

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-teaching 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;
 - e. Effectively communicate those results in a variety of formats

COURSE TASKS AND GRADING

All grades and course materials will be accessed through Pearson MyLab Math and Laulima. The grade breakdown will be as follows:

Assignment	Percentage
Final Exam	20%
MyLab Math (MLM) Homework	30%
4 Tests	40%
Forum Posts	10%
Total	100%

A letter grade for Math 103 will be assigned according to the level of achievement as provided in the table below:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 0%-59%

CR 70% or above of the cumulative points possible

NC Less than 70% of the cumulative points possible

W Official Withdrawal

I Incomplete

Note: CR/NC grades require written instructor consent. Students must apply for CR/NC grading option at the WCC Admissions Office by the posted deadline.

Note: The W grade is given only when the student officially withdraws from the course by the posted deadline.

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.

Grading for the Co-Requisite Course Math 88:

Students will get CR in Math 88 if they pass Math 103 with a grade of C or better. They will receive NC in Math 88 if they receive a grade of D or lower in Math 103.

COURSE CONTENT

- A Review of Basic Algebra including rational exponents, radicals, rational expressions, and factoring (*FS & FQ*)
- Equations and Inequalities including solving quadratic equations, complex numbers, linear and compound inequalities, absolute value equations and inequalities, and applications (*FS & FQ*)
- The Rectangular Coordinate System and Graphs of Equations including circles, linear functions, and algebra of functions (*FS & FQ*)
- Polynomial and rational functions (*FS & FQ*) Exponential and Logarithmic Functions (*FS & FQ*)
- Linear Systems (*FS & FQ*)

LEARNING RESOURCES

REQUIRED MATERIALS:

- A scientific calculator
- **MyLab Math (MLM) via IDAP**
The MyLab Math (MLM) Online Program comes with the eBook *Algebra for College Students*, 9th edition, by Lial, Hornsby, & McGinnis. MLM registration will be through IDAP via the VitalSource link in Laulima.

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.

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.

ADDITIONAL ONLINE LEARNING RESOURCES:

- Tutor.com: <https://windward.hawaii.edu/tutor.com/>
- The Math Lab: La‘akea 220 <https://windward.hawaii.edu/services-for-students/tutoring/ka-piko/>
- Khan Academy Videos: <http://www.khanacademy.org>

ADDITIONAL INFORMATION

Attendance and Class Preparation: This is an online class and students are expected to keep pace with the posted assignments. Students are expected to interact with the instructor and other members of this online class with professionalism. There will be no extra credit work. There will be a 10% grade deduction on any late assignment on MLM. All due dates are outlined on MLM.

Final Exam: There will be one cumulative computer-based final exam through MLM. The final exam is worth 20% of your overall grade. The exam is timed (3 hours). The exam is not proctored and can be taken on any computer. Handwritten work or scrap paper is required to be submitted for the final exam on Laulima. No late final exams will be accepted for a grade. The final exam is due no later than December 16, 2022, at 11:59 PM.

Tests: There will be 4 computer-based tests through MLM. The tests are timed (2 hours). The tests are not proctored and can be taken on any computer. Handwritten work or scrap paper is required to be submitted for each test on Laulima.

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 December 16, 2022. You have unlimited attempts at homework problems and your highest score will be saved.

Forum Posts: There will be 6 forum posts throughout the semester. The posts will open on Mondays and are due on Fridays. The forum posts are not math related, instead they are an opportunity for us to get to know each other. You are expected to post and reply to at least one other student to earn points.

DISABILITIES ACCOMMODATIONS

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

SEX DISCRIMINATION AND GENDER-BASED VIOLENCE RESOURCES (TITLE IX)

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:

Jojo Miller, Confidential Advocate
Phone: (808) 348-0663
Email: advocate@hawaii.edu
Office: Hale Kāko‘o 110

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

Karen Cho, Deputy Title IX Coordinator
Phone: (808) 235-7404
Email: kcho@hawaii.edu
Office: Hale ‘Alaka‘i 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, the University’s Title IX resources and the University’s Policy, Interim EP 1.204, go to manoa.hawaii.edu/titleix/

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

MATH 88 – COLLEGE ALGEBRA COMPANION

2 Credits (CRN 63168 with Co-Requisite Math 103)

Online, Synchronous

Class meets virtually via Zoom on Fridays 10:00-11:50 am. Click [here](#) to join the classroom.

INSTRUCTOR: Bethany Hopkins
OFFICE: Hale Mana‘opono Room 112A
OFFICE HOURS: Fridays 9:00-10:00 am via [Zoom](#) , or by appointment
TELEPHONE: (808) 236-9282
EMAIL: hopkinsb@hawaii.edu (preferred method of communication)
EFFECTIVE DATE: Fall 2022

CATALOG DESCRIPTION

Math 88 provides students with supplemental algebra instruction that directly supports the topics covered in Math 103. (2 lecture hours)

Pre-Requisite: Satisfactory math placement test score

Co-Requisite: Enrollment in MATH 103 CRN 63169

STUDENT LEARNING OUTCOMES

As a result of taking this course, students can expect to demonstrate algebra skills needed to be successful in Math 103.

COURSE TASKS, MATERIALS, AND GRADING

This course is designed to supplement Math 103 with *just in time* instruction and in-class activities designed to help students achieve success in Math 103. There are no exams or homework assignments for this course. There are no required materials for this course.

This course is graded on a Credit (CR) /No Credit (NC) scale. Students will get CR in Math 88 if they pass Math 103 with a grade of C or better and will receive NC in Math 88 if they receive a grade of D or lower in Math 103. A grade of W is given when students officially withdraw by the posted deadline. Students must withdraw from both Math 88 and Math 103.

MATH 103/88 ONLINE – FALL 2022 – SCHEDULE

IMPORTANT DATES	
08/30/2022	Last day to register
08/30/2022	Last day to receive 100% tuition refund
09/13/2022	Last day to receive 50% tuition refund
09/13/2022	Last day to drop (No "W" on transcript)
10/31/2022	Last day to withdraw from class ("W" on transcript)

This syllabus is subject to change at any time at the discretion of the instructor. Students are responsible for keeping current with changes made to this syllabus. Be sure to check your school email for class announcements.

Week	Dates (Monday-Friday)	Assignments to Complete
1	8/22 – 8/26	Laulima: Read syllabus, Forum Post 1, connect to MyLab Math using VitalSource link MyLab Math: Tutorial, R.2, R.4, 1.1, 1.5, 1.6, 1.7
2	8/29 – 9/2	MLM: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6
3*	9/5 – 9/9	Laulima: Forum Post 2 MLM: 3.1, 3.2, 3.3
4	9/12 – 9/16	Exam 1 Review MLM: Exam 1 (CHAPTERS 1,2,3)
5	9/19 – 9/23	Laulima: Forum Post 3 MLM: 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
6	9/26 – 9/30	MLM: 5.1, 5.2, 5.3, 5.5
7	10/3 – 10/7	MLM: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6
8	10/10 – 10/14	Laulima: Forum Post 4 Exam 2 Review MLM: Exam 2 (CHAPTERS 4,5,6)
9	10/17 – 10/21	MLM: 7.1, 7.2, 7.3, 7.4, 7.5
10	10/24 – 10/28	MLM: 7.6, 7.7, 8.1
11	10/31 – 11/4	MLM: 8.2, 8.3, 8.4, 8.5
12*	11/7 – 11/11	Exam 3 Review MLM: Exam 3 (CHAPTERS 7 AND 8)
13	11/14 – 11/18	Laulima: Forum Post 5 MLM: 9.1, 9.3, 10.2, 10.3, 10.4, 10.5, 10.6
14*	11/21 – 11/25	MLM: 11.4, 12.1, 12.3, 12.4
15	11/28 – 12/2	Exam 4 Review MLM: Exam 4 (CHAPTERS 9,10,11,12)
16	12/5 – 12/9	Laulima: Forum Post 6 MLM: Final Exam Review
17**	12/10 – 12/16	MLM: Final Exam (Cumulative)

**The Final Exam must be completed by December 16th. No late final exams will be accepted for a grade.

*Holidays: September 5th – Labor Day
 November 11th – Veterans Day
 November 24th-25th – Thanksgiving Recess