



### **MATH 103 – COLLEGE ALGEBRA**

4 Credits (CRN 64103/64465)

MW 11:30am – 1:20pm in Mana‘opono 115

<b>INSTRUCTOR:</b>	Jody-Lynn Storm
<b>OFFICE:</b>	Hale Mana‘opono 105A
<b>OFFICE HOURS:</b>	TBA
<b>TELEPHONE:</b>	(808) 236 - 9277
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<b>EFFECTIVE DATE:</b>	Fall 2024

**Note: Students enrolled in MATH 103 CRN 64103 must also be enrolled in MATH 88 CRN 64102 which meets on Fridays from 11:30am – 1:20pm in Mana‘opono 115.**

### **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**

Linear equations, inequalities, systems of equations, polynomials, functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions.

Prerequisites: “C” or better in MATH 25, 26, 29, 82 or equivalent

### **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.

### **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 CONTENTS

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

### RESPONSIBILITIES OF STUDENTS

- Have access to a reliable internet connection
- Be self-motivated
- Set aside adequate study time

### COURSE TASKS AND GRADING

Grades are posted in the Laulima Gradebook. Grades for this course are based on the following course tasks:

ASSIGNMENT	POINTS
Exams: 3 @ 100 pts each	300
MLM Homework: 48 @ 4pts each	192
Class Activities: about 35 @ 2pts each	70
<b>Total</b>	<b>562</b>

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

<u>Letter Grade</u>	<u>Definition</u>
A	90% - 100% of the cumulative points possible
B	80% - 89% of the cumulative points possible

C	70% - 79% of the cumulative points possible
D	60% - 69% of the cumulative points possible
F	Less than 60% of the cumulative points possible
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 Admissions Office by the posted deadline. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course.

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.

## REQUIRED MATERIAL

**The MyLab Math (MLM) Online Program.** MLM comes with the eBook *Algebra for College Students* 9<sup>th</sup> ed., 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 RESOURCES

### WCC Resources

- Ka Piko Tutoring: <https://windward.hawaii.edu/services-for-students/tutoring/ka-piko/>

### UH System Resources

- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- Tutor.com: <https://windward.hawaii.edu/tutor.com/>

### Other Resources

- Desmos Calculator: <https://www.desmos.com>
- Khan Academy Videos: <http://www.khanacademy.org>

## ADDITIONAL INFORMATION

### Attendance

Although there are no points for attendance, there are points for class activities. You must be present to participate in class activities.

### MyLab Math (MLM) Homework

Computer-based homework worth a total of 192 points (48 assignments at 4 points each). Homework is typically due Friday by 11:59 pm. There will be a 1% deduction per day for problems submitted after the due date. Final submission for homework will be the Sunday before finals week.

### Class Activities

Class activities are worth 2 points each. There will be approximately 35 class activities. You must be present to participate in class activities.

### Extra Credit

The end of semester student survey (CES) is worth 10 points of extra credit.

## 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. Jodi Asato can be reached at (808) 235-7472, [jodiaka@hawaii.edu](mailto:jodiaka@hawaii.edu), or you may stop by Hale Kāko'o 105 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:

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

Leslie Cabingabang, UH System Confidential Advocate  
 Phone/Text: (808) 348-0432 or (808) 341-0952  
 Email: [advocate@hawaii.edu](mailto:advocate@hawaii.edu)  
 Office: Hale Kāko'o 107 (Wednesdays)

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

To file a report online: <https://report.system.hawaii.edu/student>

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/](http://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

## SCHEDULE

IMPORTANT DATES	
Sep 3	Last day to register & and drop with 100% refund of tuition
Sep 17	Last day to withdraw without a "W" grade and to receive 50% refund of tuition
Nov 4	Last day to withdraw with a "W" grade or to choose CR/NC grade option.

	MONDAY		WEDNESDAY
AUG 26	Orientation, R.2, R.4	AUG 28	1.1
SEP 2	No Class - Holiday	SEP 4	1.5, 1.6
SEP 9	1.6, 1.7	SEP 11	2.1, 2.2
SEP 16	2.2, 2.3, 2.4	SEP 18	2.4, 2.5, 2.6
SEP 23	2.6, 3.1	SEP 25	3.3
SEP 30	4.1, 4.2	OCT 2	Exam 1 Review
OCT 7	Exam 1	OCT 9	4.2, 4.3, 4.4
OCT 14	4.4, 4.5, 4.6	OCT 16	4.6, 5.1, 5.2
OCT 21	5.2, 5.3, 5.5	OCT 23	5.5, 6.1, 6.2
OCT 28	6.2, 6.3	OCT 30	6.4, 6.6, 7.1
NOV 4	7.1, 7.2, 7.3	NOV 6	Exam 2 Review
NOV 11	No class - holiday	NOV 13	Exam 2
NOV 18	7.3, 7.4	NOV 20	7.5, 7.6, 7.7, 8.1
NOV 25	8.1, 8.2, 8.5	NOV 27	9.5, 10.2
DEC 2	10.3, 10.4, 10.5	DEC 4	10.6, 11.4
DEC 9	12.1, 12.3	DEC 11	Exam 3 Review
DEC 16		DEC 18	Exam 3