

## MATH 103 – COLLEGE ALGEBRA (4 Credits)

INSTRUCTOR: Jody-Lynn Storm  
OFFICE: Mana'opono 105A  
OFFICE HOURS: Monday - Friday 10:00 am – 11:00 am  
And by appointment  
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EMAIL: [jstorm@hawaii.edu](mailto:jstorm@hawaii.edu)  
WEBSITE: <http://www.jodystorm.com>  
EFFECTIVE DATE: Spring 2016

CRN	Days	Time	Classroom
61260	MWF	11:30 am – 12:45 pm	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 O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.*

### COURSE DESCRIPTION

Linear equation, inequalities, systems of equations, polynomial functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions. (4 hrs. lecture)

PREREQUISITES: Grade of "C" or better in MATH 25 or MATH 29 or equivalent, or satisfactory placement test score, or consent of instructor.

WCC: FS

### LEARNING RESOURCES & MATERIALS

#### REQUIRED MATERIALS:

- Textbook: College Algebra Essentials, by Julie Miller
  - If preferred, you may use the eBook on Connect Math. Register online at <http://www.connectmath.com/login>. Use Course Code: D4XTC-3QKMN

#### LEARNING RESOURCES:

- Supplemental Instruction Leader (SIL): Pua Obayashi  
Email: [of8@hawaii.edu](mailto:of8@hawaii.edu)
- Math Lab: La'akea (Library Learning Commons) Room 220  
[http://windward.hawaii.edu/About\\_WCC/Math\\_Lab/index.php](http://windward.hawaii.edu/About_WCC/Math_Lab/index.php)
- Testing Center: La'akea (Library Learning Commons) Room 228  
Phone number 235-7498

[http://windward.hawaii.edu/Testing\\_Center/index.php](http://windward.hawaii.edu/Testing_Center/index.php)

- Brainfuse Online Tutors: <https://windward.hawaii.edu/brainfuse/>
- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- TRiO: <http://windward.hawaii.edu/TRIO/index.php>
- Wolfram Alpha: <http://www.wolframalpha.com>
- Khan Academy Videos: <http://www.khanacademy.org>

## STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in writing math expressions into different forms.
2. Employ algebraic techniques to find the solutions to equations and/or inequalities, using complex numbers where appropriate.
3. Use algebraic techniques to analyze and solve applied problems.
4. Interpret equations geometrically and use geometrical information to obtain the equation of lines and circles.
5. Utilize introductory function concepts and draw the graphs of selected functions.
6. Utilize the definition of a logarithm and the properties of logarithms to simplify logarithmic expressions or to solve logarithmic and exponential equations.
7. Demonstrate proficiency in solving systems of linear and second degree equations and inequalities.
8. 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.*

## FOUNDATION HALLMARKS

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

1. Students will be exposed to the beauty, power, clarity and precision of formal systems.
2. Instructors will help students understand the concept of proof as a chain of inferences.
3. Instructors will teach students how to apply formal rules or algorithms.
4. Students will be required to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.

5. The course will include computational and/or quantitative skills.

6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.

## COURSE TASKS & GRADING

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

4 Exams (100 pts. each)	400 pts.	(55% of possible points)
Course Activities:		
Homework (5 pts. each)	150 pts.	(21% of possible points)
In-Class Activities	30 pts.	(4% of possible points)
Final Exam	<u>145 pts.</u>	(20% of possible points)
Total	725 pts.	

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
N	See below
CR	70% or above of the cumulative points possible
NC	Less than 70% of the cumulative points possible
W	Official Withdrawal
I	See below

Note: *The N grade indicates that the student has worked conscientiously, attended class regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved the minimal student learning objectives and is not yet prepared to succeed at the next level, or the student has made consistent progress in the class but is unable to complete the class due to extenuating circumstances, such as major health, personal, or family emergencies.*

The N grade is an optional grade that instructors do not have to give. All requests for the N grade are contingent upon the instructor's approval.

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 option 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. The I grade is given by student request and must be approved by the instructor.

## ADDITIONAL INFORMATION

### ABSENCES

It is your responsibility to attend class. If you are absent, you are responsible for any important announcements or assignments given during the class you missed. It is your responsibility to meet with me to review any missed lecture material. You may drop in during posted office hours or make an appointment to meet one-on-one. Please do not send email requests for missed lecture material.

### MAKE-UP POLICY

If you are unable to attend class on an exam day, discuss your situation with me as soon as possible **before** the exam day. It may be possible for you to take the exam earlier than the specified day/time. If you unexpectedly must be absent on an exam day, notify me by 4:00 pm via voicemail or email. If notification is received and the reason is justified then a make-up exam will be scheduled. For each student, no more than one make-up exam may be taken. Make-up exams are scheduled at the end of the semester. There are no make-up opportunities for missed homework or graded in-class activities.

### CALCULATORS

No calculators are allowed on exams. A calculator may be used on homework as needed.

### EXAMS

There are **no retests** for exams. The final exam is cumulative.

### HOMEWORK

There is one homework assignment per textbook section. Each assignment is worth 5 points. The homework problems can be found at the end of each section. You will be assigned both even and odd problems. I expect you to grade the odd problems, as the solutions will be at the back of the book. I will grade the even problems. I encourage you to work on homework assignments with your fellow classmates, however the write up must be done on your individual effort.

Assignments and due dates are posted on my webpage. **You may need to do more than the assigned homework problems to become comfortable with the concepts and skills.**

### IN-CLASS ACTIVITIES

I do not take attendance. Instead you will receive a grade for class participation via in-class activities.

### SUPPLEMENTAL INSTRUCTION

SI sessions are optional. For each hour of SI, 1 point will be added to the Course Activities portion of your grade. The SI points earned can potentially push your Course Activities portion of your grade to 185 points (5 points over the 180 points allotted).

*This class is supported by the Supplemental Instruction (SI) program. SI is a FREE, collaborative, peer-study program that helps students succeed in difficult classes. Your SI Leader is a peer who has taken this class (or a higher level class) previously and has an understanding of the course material. In SI sessions, students will work together with the SI Leader to explore important concepts, review class notes, discuss test taking strategies, and review for tests. All students in this class are encouraged to attend!*

*Note: At WCC, students who attend SI sessions earn A, B, and C grades at nearly a 20% higher rate than non-attendees and are less likely to withdraw from their courses. WCC data has also shown that the more sessions students attend, the more likely they are to pass.*

### GRADING

To receive full credit for problems done on exams or graded homework, you must show sufficient work in a clear and organized manner. Messy and/or disorganized work will not receive full credit.

### CELL PHONES & OTHER DEVICES

Cell phones and other electronic devices should be silenced and put away prior to the start of class.

### DISRUPTIVE BEHAVIOR & ACADEMIC HONESTY

Please respect your fellow students and act accordingly. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting. Examples are activated cell phones, texting, **prolonged chattering**, etc.

All exams must be done by your own individual effort. You may not consult with any classmates while taking exams. This would fall under the guidelines of academic integrity and any evidence of cheating will result in a score of 0 for all parties involved. An "F" will be assigned to students involved in cheating and will be reported to the Dean. See <http://windward.hawaii.edu/Policies/> for more information on the UH system-wide student conduct code.

### DISABILITIES ACCOMMODATION STATEMENT

*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 Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, [lemke@hawaii.edu](mailto:lemke@hawaii.edu), or you may stop by Hale 'Akoakoa 213 for more information, or visit <http://windward.hawaii.edu/Disabilities/>*

STORM: SPRING 2016  
MATH 103: TENTATIVE SCHEDULE  
MWF 11:30 AM – 12:45 PM

Important Dates	
JAN 15	Last day to register/add/drop and to receive 100% refund of tuition
FEB 1	Last day for 50% refund of tuition and to withdraw without a "W" grade.
MAR 29	Last day to withdraw with a "W" or choose CR/NC grade option. Last day to make up "I" grade from previous semester

	Monday		Wednesday		Friday
JAN 11	Orientation, R1	JAN 13	R1, R3	JAN 15	R4
JAN 18	<b>No Class</b> Martin Luther King Day	JAN 20	R5	JAN 22	R6
JAN 25	R7	JAN 27	1.1	JAN 29	1.2
FEB 1	1.3	FEB 3	Exam 1 Review	FEB 5	<b>EXAM 1</b> (Chr, 1.1, 1.2)
FEB 8	1.4	FEB 10	1.5	FEB 12	1.6
FEB 15	<b>No Class</b> President's Day	FEB 17	1.7	FEB 19	1.8
FEB 22	2.1	FEB 24	2.2	FEB 26	2.3
FEB 29	Exam 2 Review	MAR 2	<b>EXAM 2</b> (1.3-1.8, 2.1, 2.2)	MAR 4	<b>No Class</b> Non-instructional Day
MAR 7	2.4	MAR 9	2.5	MAR 11	2.8
MAR 14	3.1	MAR 16	3.3	MAR 18	3.5
MAR 21	<b>Spring Break</b>	MAR 23	<b>Spring Break</b>	MAR 25	<b>Spring Break</b>
MAR 28	3.6	MAR 30	3.7	APR 1	Exam 3 Review
APR 4	<b>EXAM 3</b> (2.3-2.5, 2.8, 3.1, 3.3, 3.5, 3.6)	APR 6	4.2	APR 8	4.2
APR 11	4.3	APR 13	4.4	APR 15	4.5
APR 18	5.1	APR 20	5.2	APR 22	5.4
APR 25	Exam 4 Review	APR 27	<b>EXAM 4</b> (3.7, 4.2-4.5, 5.1, 5.2)	APR 29	5.5
MAY 2	Final Review	MAY 4	Final Review	MAY 6	<b>No Class</b> Non-instructional Day
MAY 9		MAY 11	<b>FINAL EXAM</b> <b>11:30 am -1:30 pm</b>	MAY 13	