



UNIVERSITY of HAWAII®  
**WINDWARD**  
COMMUNITY COLLEGE

## **Math 111 Mathematics for Elementary Teachers I**

3 Credits (CRN 63047)

Asynchronous

**INSTRUCTOR:** Kevin A. Takayama, Instructor  
**OFFICE:** Hale Mana‘opono 105  
**OFFICE HOURS:** M 8:00 AM – 8:30 AM;  
TTh 8:30 AM – 9:15 AM & 11:00 AM – 11:30 AM;  
W 9:45 AM – 10:45 AM;  
or by appointment  
**TELEPHONE:** (808)236-9283 **EMAIL:** ktakayam@hawaii.edu  
**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 111 is the first of a two-course sequence designed to give prospective elementary education majors the depth of understanding necessary to teach mathematics in the elementary classroom. Topics include number (natural numbers, integers, fractions, and real numbers) and operations, sets, patterns, functions and algebra. Emphasis will be on communication, connections and problem solving, representations, and reasoning and proof.

*Pre-Requisite(s): C or better in Math 25, 26, 28, 29, 75X, or higher or equivalent, satisfactory math placement test, and grade of C or better in ENG 22 or ENG 23 or placement in ENG 100.*

### **Activities Required at Scheduled Times Other than Class Times**

MyLab Math is an online learning resource. Every week you will be assigned online assignments through MyLab Math. Most exercises include learning aids, such as guided solutions, sample problems, and extra help as you're working through them, and they offer helpful feedback when you enter incorrect answers. A variety of multimedia resources are also available in the homework exercises. You can link to the ebook, video clips, and animations to improve your understanding of key concepts. Videos are captioned in English, and several courses are also captioned in Spanish.

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.

## GETTING STARTED WITH THIS ONLINE COURSE

1. Enter your Lualima course and locate the VitalSource app. The name and location of the app may vary based on the set up of the course. Select **VitalSource for UH Windward CC IDAP**.
2. Under My Courses Home, your Pearson materials tied to this course will appear.
  - If you are currently *Opted In* for course material access, the “I am opted-in to this resource” checkbox is selected. To access your course materials, select the **Launch Courseware** button.
3. Select the **Open MyLab & Mastering** button to launch your Pearson course.
4. If prompted, select **I Accept** to agree to Pearson’s End User License Agreement.
5. Link your Lualima user account to either an existing Pearson account by entering your Pearson Username and Password or to a new user Pearson account by selecting the Create button.
6. After linking your accounts, select **Go to My Courses**.
7. More detailed instructions can be found in the Resources of Lualima

## STUDENT LEARNING OUTCOMES

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

1. Explain the meaning of numerical operations and how they relate to each other
2. Utilize symbolic forms to represent, model, and analyze mathematical situations to solve problems
3. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form

## COURSE TASKS

This is an asynchronous course. Students independently watch lecture videos in order to complete homework sets and quizzes. Discussion forums are a large part of this course. Students post within the discussion forums and are expected to reply to their classmates’ posts. After the completion of each unit, a review and an exam will be conducted.

## ASSESSMENT TASKS AND GRADING

The student will demonstrate competency in the objectives by completing and turning in all assignments as requested, by taking unit tests, and by taking a final exam over concepts and skill covered in the entire course.

Unless permission is granted by the instructor beforehand, assignments and tests must be completed and submitted to the instructor at the specified date and time. **Due dates fall on Wednesdays and Sundays**. The only exception is the last week where the final exam must be completed by Friday,

October 14.

Points will be assigned to each graded assignment as follows:

**MyLab Math.** Homework sets will be graded on a 0 - 10-point scale. Assignments are to be completed by the assigned due date

**Discussions.** Every week there will be at least one discussion through Laulima. Each discussion will be graded on a 0 - 10-point scale. You will need to reply to the main discussion topic.

**Quizzes.** Quizzes will be graded on a 0 - 10-point scale through MyLab Math. The quizzes will be timed and will consist of a few questions from the lessons.

**Teacher Presentations.** There will be three (3) teacher presentations throughout the term. Each presentation will be live via Zoom for students to attend (optional). Presentations will also be recorded. There will be a reflection assignment for each presentation.

**Tests.** A test will be approximately 100 minutes in length and will be scored on a 100-point scale. Each test must be completed by the assigned due date. There are no retests.

**Showing and Submitting Work for Tests.** On paper, in a notebook, or digitally, please show all your work in an organized, orderly fashion and number each question. After you submit a test through MyLab Math, you must immediately upload your work as a single pdf to Laulima's Drop Box. You're welcome to use a scanner. There are also many apps that can create pdfs using your phone. This needs to be done within 10 minutes of submitting your test online. Doing so allows me to give you partial credit for problems you did incorrectly. Your work is also what earns you credit. If you don't show meaningful work, points will be deducted even if you get the answer correct.

**Test Reviews.** Prior to tests, students will be assigned a test review as preparation. This test review must be at least 95% completed on the day of the test in order to take the test.

**Final Exam.** The final exam will cover the concepts and skills in the entire course. The final exam is 200 minutes in length and will be scored on a 100-point scale. There is no retest. There is no make-up.

**Make-up.** Make-up opportunity for a test will be possible only upon a timely presentation of a serious and justified explanation of the student's inability to complete the test on time. The instructor has the right to request documentation of the student's reasoning for not completing the test on time and to determine if the reasoning is justified. A make-up test must be taken within one week of the test unless otherwise specified by the instructor. **No more than one test may be taken by a student on a make-up basis.**

**Course grade.** Each 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
Cr	70% - 100% of the total possible points
NC	Less than 70% of the total possible points

D	60% - 69%	of the total possible points
F	Less than 60%	of the total possible points

### Percentage Breakdown

MyLab Math	30%
Discussions	10%
Quizzes	10%
Teacher Presentations	20%
Tests	20%
Final Exam	10%
Total: 100%	

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.

## COURSE CONTENT

### *Concepts or Topics*

- **Operations and Their Properties**
- **Numeration Systems and Sets**
- **Problem Solving**
- **Geometry – Polygons, Spatial Visualization, and Similarity**

### *Skills or Competencies/Responsibilities of Students. Success in this course will be enhanced by:*

1. a positive, inquiring attitude towards mathematics;
2. setting aside adequate time for studying and working of problems;
3. seeking assistance from the instructor and the Math Lab personnel whenever necessary;
4. completing assignments by the designated date;
5. regular class attendance, participation and maintaining accurate class notes.

## LEARNING RESOURCES

**Required Text:** *A Problem Solving Approach to Mathematics for Elementary School Teachers* by Billstein, Libeskind and Lott, Pearson, 12th edition.

TRiO: Hale Kāko‘o 116

The Math Lab: La‘akea 220 <https://windward.hawaii.edu/services-for-students/tutoring/ka-piko/>

UH Manoa Online Learning Academy: [manoa.hawaii.edu/ola/](http://manoa.hawaii.edu/ola/)

Tutor.com: 24/7 online tutoring that connects students one-to-one with a subject expert tutor

## ADDITIONAL INFORMATION

1. **Grading on Homework, Quizzes, or Tests.** To receive full marks for problems done on any graded activity, you must show your work neatly and completely as well as provide clear written explanations when it is asked for. Partial credit may be awarded.

2. **Homework.** For each chapter, as you read through each section and watch each lecture video, it is recommended that you write down the words, phrase or math symbols and their meanings, formulas, and properties/rules that are important for each section. It is important for you to know these.

3. **Laulima.** The syllabus, course calendar, homework schedule, grades, etc. are all viewable through Laulima. Check Laulima regularly to stay up to date.

4. **Communication.** It is your responsibility to stay in communication with the instructor. If you will be unable to complete the assignments for any reason, please inform your instructor so it may be determined if an extension is acceptable. The instructor may need to contact you throughout the semester and will do so via email. It is your responsibility to check your student email on a regular basis.

## 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.

## STUDENT BASIC NEEDS

Basic needs include food and housing, childcare, mental health, financial resources and transportation, among others. 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 are experiencing basic needs insecurity, please see the following resources: [UH System Basic Needs](#).

## 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 Campus Advocate  
 Phone: (808) 348-0663  
 Email: [jojo.miller@hawaii.edu](mailto:jojo.miller@hawaii.edu)

Leslie Cabingabang, Senior Confidential Resource  
 Phone: (808) 235-0432  
 Email: [dkahale3@hawaii.edu](mailto:dkahale3@hawaii.edu)

Desrae Kahale, Title IX Coordinator  
Phone: (808) 235-7393  
Email: [dkahale3@hawaii.edu](mailto:dkahale3@hawaii.edu)

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/)

## ACADEMIC INTEGRITY

Work submitted by a student must be the student's own work.

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.

## 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 111 Schedule Fall 2022

The dates displayed are the due dates. You should start on the assignments at least a few days prior to the due date.

	Wednesday	Sunday
Aug	24 Read Syllabus, Discussion post, Connect to MyLab Math MyLab Math Tutorial, 1-1, Quiz #1	28 Discussion Post 1-2, Quiz #2
Sept	31 Chapter 1 Review <b>Chapter 1 Test</b>	4 Discussion Post, <b>Teacher Presentation #1 (pre-recorded)</b> 2-1, 2-2, Quiz #3
	7 Discussion Post 2-3, Quiz #4	11 Chapter 2 Review <b>Chapter 2 Test</b>
	14 Discussion Post, <b>Teacher Presentation #2 (Sept 13)</b> 3-1, 3-2, 3-3, Quiz #5	18 Discussion Post 3-4, 3-5, Quiz #6
	21 Chapter 3 Review <b>Chapter 3 Test</b>	25 Discussion Post 5-1, 5-2, Quiz #7
Oct	28 Discussion Post 6-1, Quiz #8	2 Discussion Post, <b>Teacher Presentation #3 (Sept 29)</b> 7-1, 7-3, Quiz #9
	5 Discussion Post 8-1, 11-2 Quiz #10	9 Discussion Post 12-4, Quiz #11
	12 Unit 4 Review <b>Unit 4 Test</b>	<b>Friday, October 14</b> <b>Final Exam</b>