



**ED 323-90-4: Elementary Math Methods II**  
**School of Education & Behavioral Sciences**  
[Chaminade University Honolulu](https://www.chaminade.edu/)  
**Spring 2025**  
**3 Credits**

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**Office Location:** Brogan 132  
**Office/Zoom Hours:** By Appointment

### Learning Material

- **Textbook (Required):** J.A. Van DeWalle, K. Kary, J.M. Bay-Williams (2016). *Elementary and middle school mathematics: Teaching developmentally*. 10th ed. Pearson. ISBN-10: 013480208X
- **Google Drive/3-Ring Binder:** This is comprised of problem-solving sets, discussion posts, and all other assignments.

### Course Catalog Description

This course provides an overview and applications of best practice mathematics instructional approaches, strategies, techniques, and assessment methods. Math concepts for students in grades 3 – 6 are explored using hands-on and problem-solving approaches.

*Prerequisite:* Pass Praxis I or 9 hours of math credit, ED 220, ED 221, ED 322

### Marianist Values

This class represents one component of your education at Chaminade University of Honolulu. An education in the Marianist Tradition is marked by five principles and you should take every opportunity possible to reflect upon the role of these characteristics in your education and development:

1. Education for formation in faith
2. Provide an integral, quality education
3. Educate in family spirit
4. Educate for service, justice and peace
5. Educate for adaptation and change

### Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the 'Olelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Olelo No'eau 364) May I live by God
2. Provide an Integral, Quality Education (Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Olelo No'eau 1957) Acquire skill and make it deep
3. Educate in Family Spirit ('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Olelo No'eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
4. Educate for Service, Justice and Peace (Aloha) Ka lama kū o ka no'eau ('Olelo No'eau 1430) Education is the standing torch of wisdom
5. Educate for Adaptation and Change (Aina) 'A'ohe pau ka 'ike i ka hālau ho'okahi ('Olelo No'eau 203) All knowledge is not taught in the same school

### Program Learning Outcomes (PLOs)

1	Apply knowledge of learner development, learner differences, diverse students and the learning environment to optimize learning for Elementary students.
2	Describe central concepts, tools of inquiry and structures of the subject matter disciplines for Elementary students.
3	Utilize formative and summative assessments, to determine, select, and implement effective instructional strategies for Elementary students.
4	Analyze the history, values, commitments, and ethics of the teaching profession within the school community.
5	Explain the Marianist tradition of providing an integral, quality education within diverse learning communities.

### Course Learning Outcomes (CLOs)

1	Students will be able to design real-world mathematics lessons that reflect appropriate consideration of student needs, objectives to be achieved, content to be taught while allowing exploration, conjectures, and logical reasoning.
2	Students will be able to use problem-solving skills to investigate real-life mathematical situations, and communicate mathematical ideas with others verbally, numerically, symbolically, graphically, and/or geometrically.
3	Students will be able to analyze and implement various approaches, strategies, and materials for teaching lower and upper elementary mathematics.

### Alignment of Learning Outcomes

	CLO 1	CLO 2	CLO 3
<b>Marianist Values</b>	Provide an integral and quality education Educate for adaptation and change	Provide an integral and quality education Educate for adaptation and change	Provide an integral and quality education Educate for adaptation and change
<b>WASC Core Competencies</b>	Written Communication Oral Communication Quantitative Reasoning Critical Thinking	Written Communication Oral Communication Quantitative Reasoning Critical Thinking	Written Communication Oral Communication Quantitative Reasoning Critical Thinking
<b>Program Outcomes</b>	1, 2	1, 2	1, 2

*What is the Point of Math Class?*

Collaboration  
 Communicate Thoughts & Ideas  
 Creativity  
 Critical Thinking

## Assessment

The assignments in this course are each designed to contribute in a different and significant way to your knowledge and experience relative to diagnosis and remediation of mathematics, and to teaching elementary mathematics. A scoring rubric is provided with every assignment to ensure you know what is required to receive the score desired. Feedback and grades on all assignments are provided within 7 days of submission.

### 1. Participation Assignments – 0% of Final Grade

Module 1: [1 point per assignment]

- There is one assignment which contributes to your overall participation in this course: an introductory post. Although this is not a contributing factor to your final grade, it is required to complete.

### 2. Number Talks Reflections (NTR) – 30% of Final Grade

[CLO 2 & 3]

Modules 1, 2, 3, 4, 5: [3 points each]

- After watching the corresponding classroom videos, you will submit reflections about what you saw by responding to provided questions.

### 3. Problem-Solving Sets (PSS) – 30% of Final Grade

[CLO 2, & 3]

Modules 1, 3, 4, 5, 7, 8, 9: [10 points per set]

- Each chapter, you will complete five questions from each chapter's content. These questions will require detailed explanation of thought processes and mathematical drawings to show solutions.

### 4. Three-Act Fraction Task – 30% of Final Grade

[CLO 1]

Module 2, 10: [45 points]

- You will create another Three-Act Task, but this time must focus on a fraction, decimal, or percentage concept.

### 5. Mathematical Teaching Philosophy – 10% of Final Grade

[CLO 3]

Module 9: [15 points]

- As a culminating assignment, you will write your personal mathematics teaching philosophy that sums up all your mathematics education courses you have taken in your elementary education program here at Chaminade.

Grading Scale	
90 – 100 %	A
80 – 89 %	B
70 – 79 %	C
60 – 69 %	D
0 – 59 %	F

**A** - Outstanding scholarship and an unusual degree of intellectual initiative

**B** - Superior work done in a consistent and intellectual manner

**C** - Average grade indicating a competent grasp of subject matter

**D** - Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work

**F** - Failed to grasp the minimum subject matter; no credit given

## Technical Assistance for Canvas Users

- Search for help on specific topics or get tips in [Canvas Students](#)
- [Live chat with Canvas Support for students](#)
- Canvas Support Hotline for students: +1-833-209-6111
- Watch this [video to get you started](#)
- [Online tutorials](#): click on “Students” role to access tutorials
- Contact the Chaminade IT Helpdesk for technical issues: [helpdesk@chaminade.edu](mailto:helpdesk@chaminade.edu) or call (808) 735-4855

## **Kōkua 'Ike: Tutoring & Learning Services**

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check [Kōkua 'Ike's](#) website for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe. Tutor Me can be accessed 24/7 from your Canvas account. Simply click on Account > TutorMe. For more information, please contact Kōkua 'Ike at [tutoring@chaminade.edu](mailto:tutoring@chaminade.edu) or 808-739-8305.

## **Course Policies**

### **Attendance Policy**

Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assessments. Notification may be done by contacting the instructor via a direct message on GroupMe. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade. Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.

Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review the options. Anyone who stops attending a course without official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.

### **Late Work Policy**

Always accepted, but feedback may be delayed.

### **Grades of Incomplete**

This policy on incomplete grades aligns with the same University policies.

### **Instructor and Student Communication**

Questions for this course can be sent through a direct message on the GroupMe app. Online and/or in-person meetings can be arranged. Response time will take place up to 24 hours.

## **Important Information**

### **Academic Honesty**

Academic honesty is an essential aspect of all learning, scholarship, and research. It is one of the values regarded most highly by academic communities throughout the world. Violations of the principle of academic honesty are extremely serious and will not be tolerated.

Students are responsible for promoting academic honesty at Chaminade by not participating in any act of dishonesty and by reporting any incidence of academic dishonesty to an instructor or to a University official. Academic dishonesty may include theft of records or examinations, alteration of grades, and plagiarism, in addition to more obvious dishonesty.

Questions of academic dishonesty in a particular class are first reviewed by the instructor, who must make a report with recommendations to the Dean of the Academic Division. Punishment for academic dishonesty will be determined by the instructor and the Dean of Academic Division and may include an "F" grade for the work in question, an "F" grade for the course, suspension, or dismissal from the University.

For the most up to date information, please refer to the [Academic Honesty Policy](#) on the Chaminade University Catalog website.

### **Title IX and Nondiscrimination Statement**

Chaminade University of Honolulu is committed to providing a learning, working and living environment that promotes the dignity of all people, inclusivity 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. 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.

## Nondiscrimination Policy & Notice of Nondiscrimination

Chaminade University of Honolulu does not discriminate on the basis of sex and prohibits sex discrimination in any education program or activity that it operates, as required by Title IX and its regulations, including in admission and employment. Inquiries about Title IX may be referred to the University's Title IX Coordinator, the U.S. Department of Education's Office for Civil Rights, or both and contact information may be found at the [Chaminade University Title IX Office Contact Information and Confidential Resources website](#). On-campus Confidential Resources may also be found here at [CAMPUS CONFIDENTIAL RESOURCES](#).

The University's Nondiscrimination Policy and Grievance Procedures can be located on the University webpage at: <https://chaminade.edu/compliance/title-ix-nondiscrimination-policies-procedures/>.

To report information about conduct that may constitute sex discrimination or make a complaint of sex discrimination under Title IX, please refer to the [Campus Incident Report form](#). Chaminade University of Honolulu prohibits sex discrimination in any education program or activity that it operates. The NOTICE of NONDISCRIMINATION can be found here: [Notice of Nondiscrimination](#).

## CUH Alert Emergency Notification

To get the latest emergency communication from Chaminade University, students' cell numbers will be connected to Chaminade's emergency notification text system. When you log in to the Chaminade portal, you will be asked to provide some emergency contact information. If you provide a cell phone number, you will receive a text from our emergency notification system asking you to confirm your number. You must respond to that message to complete your registration and get emergency notifications on your phone.

## Assessment for Student Work

With the goal of continuing to improve the quality of educational services offered to students, Chaminade University conducts assessments of student achievement of course, program, and institutional learning outcomes. Student work is used anonymously as the basis of these assessments, and the work you do in this course may be used in these assessment efforts.

## Student with Disabilities Statement

Chaminade University of Honolulu offers accommodations for all actively enrolled students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act (2008).

Students are responsible for contacting Kokua Ike: Center for Student Learning to schedule an appointment. Verification of their disability will be requested through appropriate documentation and once received it will take up to approximately 2–3 weeks to review them. Appropriate paperwork will be completed by the student before notification will be sent out to their instructors. Accommodation paperwork will not be automatically sent out to instructors each semester, as the student is responsible to notify Kokua Ike via email at [ada@chaminade.edu](mailto:ada@chaminade.edu) each semester if changes or notifications are needed.

## Credit Hour Policy

This is a three-credit hour course requiring 135 clock hours of student engagement, per the official CUH Credit Hour Policy.

Clock Hour Category	Total Time (hours)
Seat Time	37.5
Key Assessments <ul style="list-style-type: none"><li>NTRs</li><li>Problem-Solving Sets</li><li>Three-Act Fraction Task</li><li>Mathematical Teaching Philosophy</li></ul>	50
Remaining Hours <ul style="list-style-type: none"><li>Reading</li><li>Researching</li></ul>	47.5
<i>Remaining Hours / 15 Weeks</i>	<i>3.2 hours/week</i>

## Course Schedule

### Module Information

- o *Modules do not have a start or end date.*
- o *Modules must be completed in sequential order and all assignments from the previous module must be submitted before the next module will open to ensure each student completes the module at a pace appropriate for them.*
- o *All modules must be submitted by **May 2nd, 2025.***

Module #	Module Content	Assignments
<b>Module 1</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 14: Developing Fraction Concepts</p> <p style="text-align: center;">Number Talks Videos Classroom Clips 4.1, 4.2, &amp; 4.3</p>	<ul style="list-style-type: none"> <li>o Introductory Post</li> <li>o NTR (Module 1)</li> <li>o PSS (Chap. 14)</li> </ul>
<b>Module 2</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 15: Developing Fraction Operations</p> <p style="text-align: center;">Number Talks Videos Classroom Clips 6.1, 6.3, &amp; 7.1</p>	<ul style="list-style-type: none"> <li>o NTR (Module 2)</li> <li>o Three-Act Fraction Task Information &amp; Understanding</li> </ul>
<b>Module 3</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 15: Developing Fraction Operations</p> <p style="text-align: center;">Number Talks Videos Classroom Clips 8.1, 8.2, 8.3, 8.4 &amp; 9.1</p>	<ul style="list-style-type: none"> <li>o NTR (Module 3)</li> <li>o PSS (Chap. 15)</li> </ul>
<b>Module 4</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 16: Developing Decimal and Percent Concepts and Decimal Computation</p> <p style="text-align: center;">Number Talks Videos Classroom Clips 5.1 &amp; 5.2</p>	<ul style="list-style-type: none"> <li>o NTR (Module 4)</li> <li>o PSS (Chap. 16)</li> </ul>
<b>Module 5</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 17: Ratios, Proportions, and Proportional Reasoning</p> <p style="text-align: center;">Number Talks Videos Classroom Clip 9.2</p>	<ul style="list-style-type: none"> <li>o NTR (Module 5)</li> <li>o PSS (Chap. 17)</li> </ul>
<b>Module 6</b>	Work on Three-Act Task	
<b>Module 7</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 18: Developing Measurement Concepts</p>	<ul style="list-style-type: none"> <li>o PSS (Chap. 18)</li> </ul>
<b>Module 8</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 19: Developing Geometric Thinking and Geometric Concepts</p>	<ul style="list-style-type: none"> <li>o PSS (Chap. 19)</li> </ul>
<b>Module 9</b>	<p style="text-align: center;">Van De Walle Textbook Chapter 13: Algebraic Thinking, Equations, and Functions</p>	<ul style="list-style-type: none"> <li>o PSS (Chap. 13)</li> <li>o Mathematical Teaching Philosophy</li> </ul>
<b>Module 10</b>	Work on Three-Act Task	<ul style="list-style-type: none"> <li>o Three-Act Fraction Task (Final Submission)</li> </ul>