MA102 Chaminade University of Honolulu Fall 2022 Syllabus

Course Description and Outcomes

MA100: A study of various topics including an introduction to sets, logic, number systems, basic skills in algebra and geometry, consumer mathematics, probability and statistics, with an emphasis on problem solving, quantitative and logical thinking. Offered every semester.

Course/Math General Education Outcomes

- Quantitative Skills: Students will apply basic mathematical principles needed to function effectively and develop mathematical reasoning and problem-solving skills.
- **Information Literacy**: Students will define, identify, locate, evaluate, synthesize and present or demonstrate relevant information.

e-Textbook and Online Homework System

Original Materials:

Algebra for College Students 8th Edition



Textbook ISBN-13: 9780134180847

Series: MyLab Math

Author(s): Blitzer, Robert

Instructor Contact Info

Sheryl Dohm

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Office Phone: 808-739-8561 (pro-hint: Canvas Email is a much better way to reach me.)

Email

- 1. Canvas email: for quickest response use the email function in Canvas
- 2. Regular email: sheryl.dohm@chaminade.edu

If you email me outside of office hours, please allow one-two business days for a response. (prohint: please please please do not wait until the last minute to seek help with course material)

3. Check for my response within a timely manner, in accordance to nature of email. Aloha

Office Hours: Tuesday, 1pm - 4pm. Email if you wish to make an appointment. Meetings will be mostly virtual.

Course Topic Timeline and Outcomes

Week 1: 22-26 Aug

- Using MLM
- 1.1.1 Translate English into algebraic expressions
- 1.1.2 Evaluate algebraic expressions
- 1.1.3 Use Mathematical Models
- 1.1.4 Recognize the sets that make up the real numbers
- 1.1.5 Use set-builder notation
- 1.1.6 Use the symbols for "is an element" and "is not an element"
- 1.1.7 Use the inequality symbols
- 1.1.8 Use the interval notation

Week 2: 29 Aug-2 Sept

- 1.2.1 Find a number's absolute value
- 1.2.2 Add real numbers
- 1.2.3 Find opposites
- 1.2.4 Subtract real numbers
- 1.2.5 Multiply real numbers
- 1.2.6 Evaluate exponential expressions
- 1.2.7 Divide real numbers
- 1.2.8 Use of the order of operations
- 1.2.9 Use commutative, associative, and distributive properties
- 1.2.9 Simplify algebraic expressions

Week 3: 5-9 Sept (No Classes, Monday, 5 Sept)

- 1.3.1 Plot points in the rectangular coordinate system
- 1.3.2 Graph equations in the rectangular coordinator system
- 1.3.3 Use the rectangular coordinate system to visualize relationships between variables
- 1.4.1 Solver linear equations
- 1.4.2 Recognize identities, conditional equations, and inconsistent equations
- 1.4.3 Solve applied problems using mathematical models

Week 4: 12-16 Sept

- 1.5.1 Solve algebraic word problems using linear equations
- 1.5.2 Solve a formula for a variable
- Exam 1

Week 5: 19-23 Sept

- 1.6.1 Use the product rule
- 1.6.2 Use the quotient rule
- 1.6.3 Use the zero-exponent rule
- 1.6.4 Negative Exponent rule
- 1.6.5 Use the power rule
- 1.6.6 Find the power of a product
- 1.6.7 Find the power of a quotient
- 1.6.8 Simplify exponential expressions
- 2.1.1 & 2.1.2 Find the domain and range of a relation and determine whether it is a function.
- 2.1.3 Evaluate a function.

Week 6: 26-30 Sept

- 2.2.1 Graph functions by plotting points
- 2.2.2 Use the vertical line test to identify functions.
- 2.2.3 Obtain information about a function from its graph.
- 2.2.4 Identify the domain and range of a function from its graph.
- 2.3.1 Find the domain of a function
- 2.3.2 Use the algebra of functions to combine functions and determine domains.

Week 7: 3-7 Oct

- 2.4.1 Use intercepts to graph a linear function
- 2.4.2 Compute the slope
- 2.4.3 Find a line's slope and y-intercept from its equation
- 2.4.4 Graph linear function in slope-intercept form
- 2.4.5 Graph Horizontal and Vertical Lines
- 2.4.6 Interpret slope as rate of change.
- 2.4.7 Find a function's average rate of change
- 2.4.8 Use slope and y-intercept to model data
- 2.5.1 Use the point-slope form to write equations of a line.

Week 8: 10-14 Oct (No Classes, Monday, 10 Oct)

- 2.5.2 Find slopes and equations of parallel and perpendicular lines.
- 2.5.3 Model data with linear functions and make predictions.
- Exam 2

Week 9: 17-21 Oct

• 3.1.1 Determine whether an ordered pair is a solution of a system of linear equations

- 3.1.2 Solve systems of linear equations by graphing.
- 3.1.3 Solve systems of linear equations by substitution.
- 3.1.4 Solve systems of linear equations by addition.
- 3.2.1 Solve problems using systems of equations.

Week 10: 24-28 Oct

- 3.3.2 Solve systems of linear equations in three variables
- 3.4.1 Write the augments matrix for a liner system
- 3.4.2 Perform matrix row operations
- 3.5.3&4 Use matrices to solve linear systems

Week 11: 31 Oct -4 Nov (No Classes, Friday, 11 Nov)

- 4.1.1 Solver linear inequalities
- 4.1.3 Solve applied problems using linear inequalities
- 4.2.1,2,3&4 Solve Compound Inequalities

Week 12: 7-11 Nov

- 4.3.1 Solve absolute value equations
- 4.32&3 Solve absolute inequalities
- Exam 3

Week 13: 14-18 Nov

- 5.1.1 Use the vocabulary of polynomials
- 5.1.2 Evaluate polynomials functions
- 5.1.3 Determine end behavior
- 5.1.4 Add polynomials
- 5.1.5 Subtract polynomials

Week 14: 21-23 Nov (No Classes, Thursday & Friday)

- 5.2.1 Multiply monomials
- 5.2.2 Multiply a monomial and a polynomial
- 5.2.3 Multiply polynomials when neither is a monomial
- 5.2.4 Use FOIL in polynomials multiplication
- 5.2.5 Square binomials
- 5.2.6 Multiply the sum and difference of two terms
- 5.2.7 Find the product of the functions

Week 15: 28 Nov - 2 Dec

- 5.3 GCF and grouping
- 5.4 Factoring Trinomials
- 5.5 Factoring Special Forms

Week 16: 5-8 Dec: Exam Week

Final Exam See CUH Fall 2022 Exam Schedule.

Grading

Students are expected to keep track of their grades. Please note the canvas grade book function is not used. Final Letter determined by Percent of Final Grade

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F < 60

Final Grade Calculation

Category	Percent of Final Grade
Homeworks	10%
Attendance	10%
Participation	5%
Tests, on ground	75%
Total	100%

Homework

- Homework sets are in MLM
- Grade determined at the end of the semester. Final grade based on percent or all possible points.
- Each homework set has a 70% prerequisite of previous homework.

Tests

- All tests are in person, in the classroom.
- Each test is noncumulative from the previous test.
- Each test grade is determined by percent of points earned
- Late exams are given only in extreme circumstances, in adherence to CUH policy. Please provide documented excuse.
- Final Exam See the Canvas Syllabus Module for the official CUH Final Exam Schedule

Getting Help

With Canvas

For help with Canvas,

- click on the encircled question mark found on left of Canvas page.
- Contact the Chaminade IT Helpdesk for technical issues: helpdesk@chaminade.edu or call (808) 735-4855

With Pearson Account and MLM: Getting Help-Chat with Pearson

- Below is a step-by-step guide/description to getting help with Pearson issues.
 - o GoTo https://support.pearson.com/getsupport/s/student
 - Scroll to bottom and click on Contact Us
 - Select Fields
 - Country of Study United States
 - Role College Student
 - Issue Category select most relevant to your issue
 - Product (this one is a little tricky) Type and select "MyLab Math"
 - Check I'm not a robot
 - Start a Chat

With Math content (me)

Use the "Ask your Instructor Function" in MLM. You will see it a question window. Find "Get help" at the bottom.

Tutoring and Writing 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 (https://chaminade.edu/advising/kokua-ike/) for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via Smarthinking. Smarthinking can be accessed 24/7 from your Canvas account. Simply click Account – Notifications – Smarthinking. For more information, please contact Kōkua 'Ike at tutoring@chaminade.edu or 808-739-8305.

CUH, Class, and Communication Policies

Attendance Policy

The following attendance policy is from the Academic Catalog. Faculty members should also check with their divisions for division-specific guidelines.

Students are expected to attend regularly all courses for which they are registered. Student should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments.* Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension, or by leaving a message with the instructor's division office. 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.

If you miss class, excused or unexcused, please get missed material and announcements from a classmate.

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.

Academic Conduct Policy

From the CUH Undergraduate Academic Catalog:

Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website.

For further information, please refer to the Student Handbook: https://chaminade.edu/wp-content/uploads/2019/08/NEW-STUDENT-HANDBOOK-19-20-Final-8.20.19.pdf

Credit Hour Policy

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in 37.5 hours of engagement. For example, in a one credit hour traditional face to face course, students spend 50 minutes in class per week for 15 weeks, resulting in a minimum of 12.5 instructional hours for the semester. Students are expected to engage in reading and other assignments outside of class for at least 2 additional hours per week, which equals an additional 25 hours. These two sums result in total student engagement time of 37.5 hours for the course, the total engagement time expected for each one credit course at Chaminade.

Guidelines/Policies for Communications

Email:

- Use the Canvas email. Email from non-Chaminade accounts will not get a response.
- Always include a subject line.
- Remember without facial expressions some comments may be taken the wrong way. Be
- careful in wording your emails. Use of emoticons might be helpful in some cases.
- Use standard fonts.
- Check for my response within a timely manner, in accordance to nature of email.

Threaded Discussion Groups:

- Review the discussion threads thoroughly before entering the discussion.
- Try to maintain threads by using the "Reply" button rather starting a new topic.
- Do not make insulting or inflammatory statements to other members of the discussion group. Be respectful of other's ideas.
- Be patient and read the comments of others thoroughly before entering your remarks.
- Be cooperative with group leaders in completing assigned tasks.
- Be positive and constructive in group discussions.
- Respond in a thoughtful and timely manner.

Family Educational Rights Act (FERPA) and you

Below is a link to U.S. Department of Education: FERPPA for Students (at age 18).

https://www2.ed.gov/policy/gen/guid/fpco/ferpa/students.html

ADA Accommodation

If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu). If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the Counseling Center as soon as possible.

For additional resources on ADA in college see the U.S. Department of Education website, Students with Disabilities Preparing for Postsecondary Education: Know Your Rights and Responsibilities

https://www2.ed.gov/about/offices/list/ocr/transition.html

Title IX Information

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

For a summary of recent changes see the U.S. Department of Education: Summary of Major Provisions of the Department of Education's Title IX

Rule. https://www2.ed.gov/about/offices/list/ocr/docs/tix dis.html

~Chaminade Mission and Values~

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

2focuses in Educate for Service, Justice and Peace.

For more information, see The Marianists, Province of the United States. https://www.marianist.com/wp-content/uploads/2017/10/CME 09012016.pdf

Notice of Revisions: As the semester plays out, some adjustments to the course may be needed.

~ALOHA~