MATH 100 - SURVEY OF MATHEMATICS
3 Credits (CRN 62015)
Online, Asynchronous

INSTRUCTOR: Bethany Hopkins
OFFICE: Hale Mana’opono Room TBD, Windward Community College
OFFICE HOURS: Tuesdays 9:00-10:00 am via Zoom, or by appointment
TELEPHONE: TBD
EMAIL: hopkinsb@hawaii.edu (preferred method of communication. Please include Math 100 in the subject line)

EFFECTIVE DATE: Summer 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

An introduction to quantitative and logical reasoning for the nonscience/nonmathematics major. The question, “What is mathematics?” is explored, while focusing on mathematical systems or models, cultivating an appreciation for mathematics as an aesthetic art, and developing skills in problem solving and analysis. (3 hrs. lect.)

Pre-Requisite(s): C or better in MATH 25, 26, 28, 29, 75X or higher or equivalent, co-requisite enrollment in Math 78, satisfactory math placement test score, or consent of instructor

STUDENT LEARNING OUTCOMES

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

1. Utilize basic properties and/or operations related to the topics covered in the course
2. Employ symbolic/mathematical techniques to solve applied problems
3. 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.

STUDENT RESPONSIBILITIES

- Have access to a reliable high-speed internet connection
- Have adequate computer skills
- Check Laulima daily
- Check school emails regularly
- Be self-motivated
- Set aside adequate study time
COURSE TASKS AND GRADING

All grades and course materials will be accessed through Pearson MyLabMath and Laulima. The grade breakdown will be as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Total Points</th>
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<tbody>
<tr>
<td>Final Exam</td>
<td>100</td>
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<tr>
<td>5 Quizzes (40 pts each)</td>
<td>200</td>
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<tr>
<td>MyLab Math (MLM) Homework</td>
<td>200</td>
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<tr>
<td>6 Forum Posts (5 pts each)</td>
<td>30</td>
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<td><strong>Total</strong></td>
<td><strong>530</strong></td>
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Grades are determined by the following scale:
- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 0%-59%
- 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 WCC Admissions Office by the posted deadline.

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.

COURSE CONTENT

- Logic
- Algebra: Graphs and Functions
- Personal Finance
- Probabilities
- Statistics

LEARNING RESOURCES

REQUIRED MATERIALS:
- **A calculator that can compute square roots and exponents**
- **MyLab Math (MLM) via IDAP**
  - The MyLab Math (MLM) Online Program. MLM comes with the eBook *Thinking Mathematically* 7th ed., by Blitzer. 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 ONLINE LEARNING RESOURCES:
- Tutor.com: https://windward.hawaii.edu/tutor.com/
- Khan Academy Videos: http://www.khanacademy.org

ADDITIONAL INFORMATION

Attendance and Class Preparation: This is an online class and students are expected to keep pace with the posted assignments. Students are expected to interact with the instructor and other members of this online class with professionalism. There will be no extra credit work. There will be a 10% grade deduction on any late assignment on MLM. All due dates are outlined on MLM.

Final Exam: There will be one cumulative computer-based final exam through MLM. The final exam is worth 100 points. The exam is timed (3 hours). The exam is not proctored and can be taken on any computer. Most of the questions on the final exam will come from the weekly quizzes. No late final exams will be accepted for a grade. The final exam is due no later than August 12, 2022 at 11:59 PM.

Quizzes: There will be 5 weekly computer-based quizzes through MLM. The quizzes are scheduled every Friday. Each quiz is worth 40 points. The quizzes are timed (1 hour). The quizzes are not proctored and can be taken on any computer. You will have 2 tries for each quiz and I will take the highest score.

MLM Homework: Computer-based homework due daily through the MLM program. There will be a 10% grade deduction for problems submitted after the due date. Final date of submission for late homework is August 12, 2022.

Forum Posts: There will be 6 forum posts at 5 points each. The posts will open up on Mondays and are due on Thursdays. The forum posts are not math related, instead they are an opportunity for us to get to know each other.
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. Roy Inouye can be reached at (808) 235-7448, rovinouy@hawaii.edu, or you may stop by Hale Kākoʻo 106 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:

Madoka (Doka) Kumagai, Confidential Advocate  
Phone: (808) 348-0663 (cellular)  
Phone: (808) 956-6084 (office)  
Email: kumagaim@hawaii.edu

Desrae Kahale, Mental Health Counselor & Confidential Resource  
Phone: (808) 235-7393  
Email: dkahale3@hawaii.edu  
Office: Hale Kākoʻo 101

Karla K. Silva-Park, Title IX Coordinator  
Phone: (808) 235-7468  
Email: karlas@hawaii.edu  
Office: Hale ‘Ākoakoa 220

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/

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

FOUNDATIONS SYMBOLIC (FS) REASONING HALLMARKS

Math 100 fulfills 3 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor’s degree at 4 year UH institutions. Consequently, it meets the following hallmarks:

Windward Community College is an equal opportunity, affirmative action institution.
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.

**FOUNDATIONS QUANTITATIVE (FQ) REASONING HALLMARKS**

Math 100 fulfills 3 credits of the General Education requirements (Foundations: Quantitative) for both an A.A. degree at WCC and a Bachelor's degree at 4 year UH institutions. Consequently, it meets the following hallmarks:

1. Provide students with theoretical justifications for, and limitations of, mathematical or statistical methods, and the formulas, tools, or approached 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-teacher ratio.
4. Be designed so that student 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.
**IMPORTANT DATES**

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<th>Date</th>
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<td>07/06/2022</td>
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<td>07/12/2022</td>
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<td>07/12/2022</td>
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<td>07/28/2022</td>
<td>Last day to withdraw from class (&quot;W&quot; on transcript)</td>
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**MLM DUE DATES: ASSIGNMENTS ARE DUE DAILY BY 11:59PM**

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This syllabus is subject to change at any time at the discretion of the instructor. Students are responsible for keeping current with changes made to this syllabus. Be sure to check your school email for class announcements.

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