



## **MATH 115 Fall 2022**

**CRN: 63293**

**3 Credits**

**INSTRUCTOR:** Tiffany Hayler  
**OFFICE HOURS:** Via Zoom Online: M-F by appointment, email to set up meeting.  
**EMAIL:** haylert@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 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.*

### **Catalog Description**

Utilizes basic statistical topics including measures of central tendency and dispersion, classification of variables, sampling techniques, elementary probability, normal and binomial probability distributions, tests of hypothesis, linear regression and correlation in order to solve problems. Prerequisites: Grade of "C" or better in Math 25, 26, 28, 29, 75X or higher or equivalent, satisfactory math placement test score, or consent of instructor.

### **Student Learning Outcomes**

- Demonstrate proficiency in graphing, statistical data, calculating measures of central tendency, measures of variation, percentiles, correlation coefficients, and regression line.
- Interpret statistical information provided in graphs, in summary measures (central tendency, dispersion, percentile), and in the correlation coefficient.
- Solve probability problems involving compound events, independent events, mutually exclusive events, and conditional probability.
- Calculate and interpret probabilities for normal or binomial distributions, including the use of the Central Limit Theorem.
- Demonstrate the use of inferential statistics.
- Utilize appropriate statistical terminology and mathematical symbols to effectively communicate mathematics in written and/or oral form.

## Email and Laulima Website Communication in This Course

As this course is online, it is important to check in with class content **daily**. You are responsible for checking your UH email regularly for important announcements.

## Course Goals

1. To provide the student with mathematical skills and with an understanding of functional concepts which are prerequisite for further studies in mathematics, business and/or the sciences.
2. To cultivate and enhance the student's mathematical reasoning ability.
3. To extend the student's frame of reference in comprehending and applying mathematical concepts.
4. To nurture the growth of the student's problem-solving ability.
5. To promote awareness and appreciation for the role of mathematics in contemporary society.

## Course Tasks

### Weekly Lecture Videos and Lecture Notes

Students can view the lecture videos for each section by clicking on the links provided on the Laulima course overview page. Some sections do not have a lecture video and students can read those sections in the textbook. Complete the required weekly lecture notes and upload them to Laulima as a SINGLE PDF per week. Lecture notes are worth 5 pts per section.

Please label your documents as shown below with the week mentioned first, then the assignment type (with your name instead of mine 😊 )

Documents that are improperly labeled will NOT be graded.

Example: Week1\_LectureNotes\_Hayler\_Tiffany

### Weekly Section Reading

Students need to read the sections in the etext or textbook for each week before working on homework. Students may also view the optional lecture videos that will be linked to Laulima. Please note that the videos are not in chronological order, please refer to the section title to view a helpful video.

### Weekly Homework

There will be homework due via MLM Pearson each week on Fridays at 11:59pm. Students can still earn 80% back on problems completed after the due date. The last day to complete any late work is the last instructional day of the semester.

### **Weekly Quizzes**

There will be 5 quizzes, each worth 50 points. Each quiz is an hour long and given via the MLM website. Students have only one attempt per quiz.

Quizzes open at least one week before they are due, and close on Friday's at 11:59pm, at the end of their respective weeks.

### **Final Exam**

The final exam will be given via MLM, it is cumulative and will be 2hrs long. There are no retests or makeups for the final exam.

It is expected that students spend, at the minimum, **24 hours per week** outside of class time studying, attending the Math Lab and/or TRiO for extra help, and doing homework and readings for this class.

### **Required Materials**

**Required Texts and MyLabStatistics Access: Fundamentals of Statistics 5<sup>th</sup> Edition** by Michael Sullivan

Students can use the link on Lualima titled "MLS Book & Homework" to find the online access. The etext and MLS is \$75. (Please note I use MLM and MLS interchangeably)

**Required Technology Tools:** Computer/Laptop, TI-83, TI-83+, or TI-84+ calculator. (Graphing Calculator)

**Required Internet Connection:** Students need access to a strong internet connection. Students can rent laptops and calculators from the WCC library.

### **Learning Resources**

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**WCC Math Tutoring Zoom:** <https://windward.hawaii.edu/services-forstudents/tutoring/kahttps://windward.hawaii.edu/services-for-students/tutoring/ka-piko/mathlab/piko/math-lab/>

**UH Manoa Online Learning Academy:** <http://manoa.hawaii.edu/ola/> **Brainfuse:** <http://windward.hawaii.edu/Brainfuse/>

**Khan Academy:** <https://www.khanacademy.org/> Free online lessons and practice.

**TRiO:** <https://windward.hawaii.edu/services-for-students/tutoring/trio-sss/>

## Responsibilities for Student Success in this Course

Success in this course will be enhanced by:

1. A positive, inquiring attitude toward mathematics.
2. Setting aside adequate time for studying, working on problems, and careful cogitation of the material.
3. Reading the text carefully and making use of other learning materials whenever necessary.
4. Seeking assistance from the instructor, tutors and the Math Lab whenever necessary.
5. Regularly attending class and, notifying the instructor of an absence and responsibly obtaining and completing assignments by the designated date.

## Assessment and Grading

Grades for this course are based on the following course tasks:

Assignment	Point Worth	Grade Percentage
Five Quizzes	(50pts each) 250pts	50%
MLM Homework	100pts	20%
Lecture Notes (% of total)	50pts	10%
Final Exam	100pts	20%
Total:	500pts	100%

Each letter grade for the course will be assigned according to the level of achievement as provided in the table following:

### Letter Grade/Definition

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
W	Official Withdrawal

IN	Incomplete
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Incomplete - given when a student has failed to complete a SMALL part of the course due to circumstances beyond his/her control.

Note: To receive a W grade a student must officially withdraw from the course before the posted deadline on the UH academic calendar for the current semester.

### Additional Information

- **MAKE-UP POLICY: There are no make-up opportunities for quizzes or exams.**  
Communicate with your instructor in a timely manner if a crisis occurs that keeps you from participating in the course. If you are unable to take an exam during the specified exam window, email the instructor **before** the exam period begins to inform them of this. It may be possible for you to take the exam earlier than the specified day/time. Be sure to include the reason for not being able to take the exam. If you do not notify the instructor or if you do not have a justifiable reason, you will receive a score of 0 for that exam.
- **EMAIL:** Be sure to put “Math 115” then the nature of the email in the subject line of your email. Please allow for 24 hrs to pass before sending a follow up email.
- **FINAL EXAM:** The final exam is cumulative. This means any problem or concept from any of the sections may be included in the final exam.
- **HELP:**  
The course instructor is your main human resource for help when you need help with the course material. There are also online help resources available and the Windward Community College Math Lab, online via Zoom. PLEASE seek help immediately if you are still lost or confused about the material after reading the sections and watching the lectures.

### Academic Honesty

You may not consult with any classmates or outside resources while taking quizzes or exams. You are **not** allowed to tell a classmate the kind of questions on a quiz or exam or help a classmate in any way (e.g. by explaining how to solve the problem). 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. Please keep in mind that you are being assessed for your own knowledge and understanding of the concepts and strategies.

Any evidence of plagiarism will result in a score of 0 for all parties involved. If plagiarism persists, then an “F” will be assigned to the students involved in **plagiarism** and will be reported to the Dean.

All students are required to follow the Student Conduct Code described at <http://www.hawaii.edu/policy/?action=viewPolicy&&policySection=ep&policyChapter=7&policyNumber=208>

### **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, [royinouy@hawaii.edu](mailto:royinouy@hawaii.edu), or you may stop by Hale Kāko‘o 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:

Jojo Miller, Confidential Advocate

Phone: (808) 348-0663

Email: [advocate@hawaii.edu](mailto:advocate@hawaii.edu)

Office: Hale Kāko‘o 110

Desrae Kahale, Mental Health Counselor & Confidential Resource

Phone: (808) 235-7393

Email: [dkahale3@hawaii.edu](mailto:dkahale3@hawaii.edu)

Office: Hale Kāko‘o 101

Karla K. Silva-Park, Title IX Coordinator

Phone: (808) 235-7468

Email: [karlas@hawaii.edu](mailto: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/](http://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