



## MATH 135 -PRECALCULUS: ELEMENTARY FUNCTIONS

3 Credits (CRN 63046)

Online Asynchronous

|                 |  |
|-----------------|--|
| INSTRUCTOR:     | Jody-Lynn Storm  |
| OFFICE:         | Hale Mana'opono 105A, Windward Community College         |
| TELEPHONE:      | (808) 236-9277   |
| EMAIL:          | <a href="mailto:jstorm@hawaii.edu">jstorm@hawaii.edu</a> |
| OFFICE HOURS:   | By request via Zoom                                      |
| 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

Investigates linear, quadratic, polynomial, rational, exponential, logarithmic functions, and related topics. This course is the first part of the precalculus sequence.

Pre-requisites: Grade of "C" or better in MATH 103 or equivalent, 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. Use appropriate symbolic techniques to analyze and solve applications problems.
2. Utilize elementary function concepts.
3. Graph elementary functions utilizing behavior information and/or transformations.
4. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.

### FOUNDATIONS QUALITATIVE (FQ) REASONING HALLMARKS

Math 135 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 approaches 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.

#### COURSE TASKS & GRADING

Grades for the course are recorded in the Lulima Gradebook and are based on the following:

| Assignment              | Points          | Total      |
|-------------------------|-----------------|------------|
| Unit Exams (2)          | 100 points each | 200        |
| Final Exam (1)          | 100 points      | 100        |
| Homework (35)           | 5 points each   | 175        |
| Graded Problem Sets (2) | 30 points each  | 60         |
| Forums (6)              | 5 points each   | 30         |
| <b>Total</b>            |                 | <b>565</b> |

#### LEARNING RESOURCES & MATERIALS

##### Required materials:

The MyLab Math (MLM) Online Program. MLM comes with the eBook *A Graphical Approach to Precalculus with Limits*, 7th Edition, by Hornsby, Lial & Rockswold. MLM registration will be through IDAP via the VitalSource link in Lulima.

*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 RESOURCES

### WCC Learning Resources

- Ka Piko Tutoring: <https://windward.hawaii.edu/services-for-students/tutoring/ka-piko/>
- TRIO: <https://windward.hawaii.edu/services-for-students/tutoring/trio-sss/>

### Uh System Resources

- OLA (UH online tutoring program): <http://manoa.hawaii.edu/ola/>
- Tutor.com: <https://windward.hawaii.edu/tutor.com/>
- Distance Learning Homepage: <http://www.hawaii.edu/dl/home>

### Other Online Resources

- Symbolab: <https://www.symbolab.com>
- Wolfram Alpha: <http://www.wolframalpha.com>
- Desmos Calculator: <https://www.desmos.com>
- Khan Academy Videos: <http://www.khanacademy.org>

## RESPONSIBILITIES OF STUDENTS

- Have access to a reliable high-speed internet connection
- Have adequate computer skills.
- Check emails regularly
- Be self-motivated
- Set aside adequate study time

## ADDITIONAL INFORMATION

### Attendance and Class Preparation

This is an online class and students are expected to keep pace with module assignments. Students are required to complete assignments by the posted deadlines, and interact with the instructor and other members of this online class with professionalism. There will be no make-up work and no extensions of due dates.

### Final Exam

There will be one cumulative computer-based final exam. The exam is timed (4 hours). The exam will be available for 4 days. You may take the exam on any computer.

### Unit Exams

There will be two computer-based unit exams. The exams are timed (3 hours per exam). The exams will be available for 3 to 5 days. You may take the exam on any computer. There are no re-takes, make-ups, or extensions for the exams. Students who fail to take an exam during the assigned period will receive a zero score on the exam.

Note: If the score earned on the final exam is higher than the lowest unit exam score, then the lowest unit exam score will be replaced with the score earned on the final exam. If a student misses an exam, then that exam will be counted as the lowest exam score. Only one exam score can be replaced by the score earned on the final exam.

### MyLab Math (MLM) Homework

Computer-based homework submitted online through the MLM program. Homework is due on Sundays by 11:59 pm. There will be a 1% deduction per day for problems submitted after the due date. Final submission for late homework will be the Sunday before finals week.

### Graded Problem Sets

There will be 2 graded problem sets at 30 points each. You will work the problems on separate paper and upload them to Lulima. To receive full credit, you must show sufficient work neatly, with proper notation, and in an organized manner. Messy or disorganized work will not receive full credit.

### Forum Posts

Throughout the semester forum topics will be posted on Lulima. You will be graded on your responses to 6 forum posts. Each post is worth 5 points.

### Extra Credit

- There will be 2 exam reviews and a final exam review. Each review is worth up to 10 points of extra credit.
- The end of semester student survey (CES) is worth 10 points of extra credit.
- There may be other extra credit opportunities available during the semester.

### ACADEMIC INTEGRITY

Work submitted by a student must be the student's own work. You are free to work with each other on homework, however, work on exams must be of your own merit.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

WCC Policies: <https://windward.hawaii.edu/Policies/>

### 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) 235-7448, [jodiaka@hawaii.edu](mailto:jodiaka@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:

Desrae Kahale **\*Confidential Resource\***  
808-235-7393

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

Jojo Miller, **\*Confidential Campus Advocate\***

808-348-0663

[jojo.miller@hawaii.edu](mailto:jojo.miller@hawaii.edu)

Leslie Cabingabang **\*Senior Confidential Advocate\***

808-348-0432

[leslie.cabingabang@hawaii.edu](mailto:leslie.cabingabang@hawaii.edu)

To file a report online: <https://report.system.hawaii.edu/student>

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

#### SCHEDULE (Tentative - subject to change)

| IMPORTANT DATES |   |
|-----------------|---|
| Aug 30          | Last day to register & and drop with 100% refund of tuition   |
| Sep 13          | Last day to withdraw without a "W" grade and to receive 50% refund of tuition.  |
| Oct 31          | Last day to withdraw with a "W" grade or to choose CR/NC grade option. Last day to make up "I" grade from previous semester |

| MATH 135 Online – FALL 2022 SCHEDULE |                   |  |
|--------------------------------------|-------------------|--|
| Week                                 | Dates (Mon – Sun) | Assignments Due Sundays                                |
| 1                                    | 8/22 – 8/28       | IDAP (MLM) Registration<br>MLM: Orientation (optional) |
| 2                                    | 8/29 – 9/4        | MLM: R1, R2/R3, R4<br>Forum #1                         |

|   |               |   |
|---|---------------|---|
| 3   | 9/5 – 9/11    | MLM: R5, R6, 1.1                            |
| 4   | 9/12 – 9/18   | MLM: 1.2, 1.3, 1.4<br>Graded Problem Set #1 |
| 5   | 9/19 – 9/25   | MLM: 1.5, 1.6, 2.1<br>Forum #2              |
| 6   | 9/26 – 10/2   | MLM: 2.2, Exam 1 Review                     |
| EXAM 1: Available 10/3 – 10/7   |               |   |
| 7   | 10/3 – 10/9   | MLM: 2.3                                    |
| 8   | 10/10 – 10/16 | MLM: 2.4, 2.5, 2.6<br>Forum #3              |
| 9   | 10/17 – 10/23 | MLM: 3.2, 3.1/3.3, 3.4                      |
| 10  | 10/24 – 10/30 | MLM: 4.1, 4.2, 4.3<br>Graded Problem Set #2 |
| 11  | 10/31 – 11/6  | MLM: 4.4, 5.1, 5.2<br>Forum #4              |
| 12  | 11/7 – 11/13  | MLM: 5.3, Exam 2 Review                     |
| EXAM 2: Available 11/14 – 11/18   |               |   |
| 13  | 11/14 – 11/20 | MLM: 5.4                                    |
| 14  | 11/21 – 11/27 | MLM: 5.5, 6.1, 6.2<br>Forum #5              |
| 15  | 11/28 – 12/4  | MLM: 6.3, 6.4, 6.5                          |
| 16  | 12/5 – 12/11  | MLM: 6.6, Final Exam Review<br>Forum #6     |
| 17  | 12/12 – 12/18 | Final Exam Week                             |
| FINAL EXAM: 12/12 - 12/15<br>Note: The final exam is not available Friday 12/16 |               |   |