MATH 103 – COLLEGE ALGEBRA (4 Credits)

INSTRUCTOR: Kimlynne Slagel  
OFFICE: Mana’opono 110A  
OFFICE HOURS: Monday - Tuesday 4:45 – 5:30 PM  
Wednesday 7:20 – 8:00 PM  
TELEPHONE: (808) 221-7507 (cell)  
EMAIL: kimlynne@hawaii.edu  
EFFECTIVE DATE: Fall 2016

CRN    Days    Time    Classroom  
63482  T-Th    5:30 – 7:20 PM  Mana’opono 113

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.

COURSE DESCRIPTION

Linear equation, inequalities, systems of equations, polynomial functions, fractional expressions and equations, exponents, powers, roots, quadratic equations and functions; rational, exponential and logarithmic functions. (4 hrs. lecture)

PREREQUISITES: Grade of "C" or better in Math 25 or equivalent, satisfactory placement test score, or consent of instructor.

WCC: FS

LEARNING RESOURCES & MATERIALS

REQUIRED MATERIALS:


LEARNING RESOURCES:

- Math Lab: La’akea (Library Learning Commons) Room 226  
  http://windward.hawaii.edu/About_WCC/Math_Lab/index.php
- Supplemental Instructor Katherine Bronston
- Testing Center: La’akea (Library Learning Commons) Room 228,  
  Phone number 235-7498  
  http://windward.hawaii.edu/Testing_Center/index.php
- Kahn Academy Videos: http://www.khanacademy.org
STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in writing math expressions into different forms.

2. Employ algebraic techniques to find the solutions to equations and/or inequalities, using complex numbers where appropriate.

3. Use algebraic techniques to analyze and solve applied problems.

4. Interpret equations geometrically and use geometrical information to obtain the equation of lines and circles.

5. Utilize introductory function concepts and draw the graphs of selected functions.

6. Utilize the definition of a logarithm and the properties of logarithms to simplify logarithmic expressions or to solve logarithmic and exponential equations.

7. Demonstrate proficiency in solving systems of linear and second degree equations and inequalities.

8. 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.

FOUNDATION HALLMARKS

Math 103 fulfills 4 credits of the General Education requirements (Foundations: Symbolic) for both an A.A. degree at WCC and a Bachelor’s degree at UH Manoa. Consequently, it meets the hallmarks of the symbolic reasoning requirement.

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 not focus solely on computational skills.

6. Instructors will build a bridge from theory to practice and show students how to traverse this bridge.
COURSE TASKS & GRADING

Current Grades are distributed individually after each chapter exam.

<table>
<thead>
<tr>
<th>MIdterms (3)</th>
<th>Weighted 75% of semester grade</th>
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</thead>
<tbody>
<tr>
<td>Course Activities</td>
<td>Weighted 15% of semester grade</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Weighted 10% of semester grade</td>
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</tbody>
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Course Activities may include, but are not limited to:

- Homework problems
- In-class activities

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

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the cumulative points possible</td>
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<tr>
<td>B</td>
<td>80% - 89% of the cumulative points possible</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79% of the cumulative points possible</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69% of the cumulative points possible</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60% of the cumulative points possible</td>
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<tr>
<td>N</td>
<td>See below</td>
</tr>
<tr>
<td>CR</td>
<td>70% or above of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the cumulative points possible</td>
</tr>
<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>See below</td>
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</tbody>
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Note: The N grade indicates that the student has worked conscientiously, attended class regularly, finished all work, fulfilled course responsibilities, and has made measurable progress. However, either the student has not achieved the minimal student learning objectives and is not yet prepared to succeed at the next level, or the student has made consistent progress in the class but is unable to complete the class due to extenuating circumstances, such as major health, personal, or family emergencies.

The N grade is an optional grade that instructors do not have to give. All requests for the N grade must be submitted by the student in writing and is contingent upon the instructor’s approval.

Note: CR/NC grades require written instructor consent. Students must apply for CR/NC grading option at the Admissions Office by the posted deadline. If a student does not apply for CR/NC grading option at the Admissions Office by the required deadline and if s/he does not withdraw, a letter grade (A, B, C, D, F, N) will be assigned for the course.

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 option 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. The final grade is given by student request and must be approved by the instructor.

**ADDITIONAL INFORMATION**

**ABSENCES**

It is your responsibility to attend class. If you are absent, you are responsible for any important announcements or assignments given during the class you missed. It is your responsibility to meet with your instructor to review any missed lecture material. You may drop in during posted office hours or make an appointment to meet one-on-one. Please do not send email requests for missed lecture material. If you are absent frequently or for an extended period of time, contact the instructor as soon as you can to discuss your situation. Frequent absences could negatively impact your grade.

**MAKE-UP POLICY**

If you are unable to attend class on an exam day, discuss your situation with the instructor as soon as possible before the exam day. It may be possible for you to take the exam earlier than the specified day/time. If you unexpectedly must be absent on an exam day, notify me by 4:00 pm via voicemail or email. If notification is received and the reason is justified then a make-up exam will be scheduled. The instructor reserves the right to request documentation to determine whether the absence is justifiable. For each student, NO MORE THAN ONE make-up exam may be taken. There are no make-up opportunities for missed homework, graded in-class activities or other graded course activities.

**CALCULATORS**

No calculators are allowed on exams. A calculator may be used on homework as needed.

**EXAMS**

There are no retests for exams. The final exam is cumulative.

**HOMEWORK**

There is one homework assignment per textbook section.

1) Assigned graded problems (mostly from the textbook) to turn in.
   a) 10 points for each assignment
   b) Must be turned in at the start of class
   c) Up to 3 points deducted for late submission

Assignments and due dates are posted on a master calendar provided at the beginning of the semester. **Homework Assignments are given out at the beginning of each Chapter.**

**GRADING**

To receive full credit for problems done on exams or graded homework, you must show sufficient work in a clear and organized manner. Your work must be neat and organized. "Messy" and/or disorganized work will not receive full credit.
CELL PHONES & OTHER DEVICES

Cell phones should be silenced and put away prior to the start of class. Other electronic devices such as laptops and iPads may not be used during class unless specified by instructor.

DISRUPTIVE BEHAVIOR & ACADEMIC HONESTY

Please respect your fellow students and act accordingly. If a student takes part in disruptive behavior, the instructor reserves the right to exclude the student immediately from the class meeting. Examples are activated cell phones, texting, making offensive remarks, prolonged chattering, reading other materials not relevant to the class, smokeless cigarettes, etc.

All quizzes and exams must be done by your own individual effort. You may not consult with any classmates while taking quizzes or exams. This would fall under the guidelines of academic integrity and any 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. See http://windward.hawaii.edu/Policies/ for more information on the UH system-wide student conduct code.

Graded homework assignments may be discussed with your classmates and you may seek guidance from the instructor, the Math Lab tutors, the Trio tutors (if you are a Trio client), or the SIL (if assigned to your course). However, the write up of the solution for each problem must be done on your individual effort.

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DISABILITIES ACCOMMODATION STATEMENT

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 Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information, or visit http://windward.hawaii.edu/Disabilities/