MATH 75X CRN 61288
INTRODUCTION TO MATHEMATICAL REASONING
4 Credits
Time: Monday, Wednesday 5:30 – 7:20 PM

INSTRUCTOR: Kimlynne Slagel
OFFICE: Mana`opono 110A
OFFICE HOURS: Monday, Wednesday 4:45 – 5:20 PM
TELEPHONE: 808-236-9281(office) or text message via “REMIND: Math 75X” see below for details on how to join text messaging group.
EFFECTIVE DATE: August 2017

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
This course prepares students for MATH 100, MATH 101, MATH 111, and MATH 115. Course topics include ratio and percent, unit conversion, graphs, data interpretation, basic algebra, solving linear equations, and working with formulas with special emphasis on pattern recognition and problem solving. Additional topics may include set theory, inequalities, and quadratics. (4 hours lecture).

Activities Required at Scheduled Times Other Than Class Times
Make up exams (see Instructor’s Expectations for more details on make up exams) shall be written outside the scheduled class meetings. It is the student’s responsibility to complete make up exams within the deadline set by the instructor, usually within two weeks of the original test date.

STUDENT LEARNING OUTCOMES

Students will be able to:

1. Solve applied mathematical problems, judge reasonableness of results and communicate conclusions using appropriate terminology and symbols

2. Recognize and express mathematical patterns in various forms and contexts

3. Perform operations on real numbers

4. Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.
Note: All SLOs assessments are embedded in class activities, homework, class activities or exams.

COURSE CONTENT

Concepts or Topics

- Problem Solving Strategies
- The Real Number System
- Operations on the Real Number System
- Linear Equations in One Variable
- Problem Solving Using Linear Equations
- Working with Functions
- Working with Integer Exponents

Skills or Competencies

Success in this course will be enhanced by:

1. developing a positive, inquiring attitude towards learning mathematics;
2. setting aside adequate time for studying and working through problem sets.
3. reading textbook carefully and make use of other learning materials whenever necessary;
4. seeking assistance from the instructor and the Math Lab personnel whenever necessary;
5. completing assignments by the designated due date;
6. attending class regularly;
7. participating in class discussions and taking accurate notes.

In-Class Course Tasks

Students shall engage in class discussions, problem solving both at his/her desk and at the front board and explore new material during the class meetings. Students shall work both individually, as well as in small groups to develop critical thinking skills.

Assessment Tasks and Grading

Course grades will comprise of 2 components and weighted as indicated.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Exams (4 department tests worth approximately 50-75 points each)</td>
<td>70%</td>
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<tr>
<td>Activities (Including in-class activities, and homework assignments approximately 400 points total)</td>
<td>30%</td>
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Learning Resources and Materials


**MyMathLab** My Math Lab is an online tutorial linked to your textbook. It offers tutorial help along with additional practice problems. Students may opt to purchase this web base tutorial via the site [https://www.pearsonmylabandmastering.com/northamerica/mymathlab/](https://www.pearsonmylabandmastering.com/northamerica/mymathlab/). MyMathLab is **OPTIONAL**. Work completed on MyMathLab will not be graded nor will the points earned through MyMathLab be counted towards the semester grade.

**Scientific Calculator**, Recommended models TI-30XS, TI-30Xa, TI-30X II, TI-34. Note: the TI-30XS model will be used in class demonstrations. Students may opt to use other brands of scientific calculator but the instructor may or may not be able to assist the student on calculator functionality.
Receiving Announcements/Communicating with the Instructor Via Text Messaging

- To join the class text messaging group, text @agf3g7 to the number 81010. Your phone name and phone number will be hidden from the rest of the class. Only your name will be visible to the Instructor. Text messaging charges will be determined by your individual cell phone plan. This is service is optional. All announcements will also be sent via Laulima and email.

Instructor expectations:

- Attendance is mandatory! Because much of the learning is done in class and in a small group setting, it is almost impossible to replicate this outside the classroom. For that reason, some activities CAN NOT be made up for point credit unless special arrangements are made by the student in conjunction with the instructor. However, some of the accompany work can be made up outside the class room and rewarded with points. If you need to miss class for any reason, you are required to meet with the instructor to learn how to make up missed lessons, including retrieving missed handouts and notes. Please note, that even though you may NOT be awarded points for the missed in-class activity, you are still required to know the material covered in your absence.
- Class participation is expected from EVERYONE. There are no passive learners in Math 75X. Each student is responsible for adding to discussions, working towards problem solving within the activity.
- RESPECT! Each individual is due the respect of others. There are NO BAD ideas or DUMB QUESTIONS in Math 75X. Please give everyone the opportunity to explore and make mistakes in a safe and nurturing environment.
- CELL PHONES. Absolutely NO phone calls or text messaging during class time. This course is comprehensive and accelerated. You must devote the entire 1 hour and 50 minutes each Monday and Wednesday to mathematics in order to get the most out of the course. Please silence your phones before entering the classroom.
- Assignments are bundled and graded holistically by Activity. Each Activity will include in-class discussion questions and answers written directly into the pages of the textbook. Additional handouts that supplement the Activity will be distributed at the beginning of each class. Activity Assignments are due at the beginning of class the following MONDAY. Late work will be penalized up to 30% of the points possible.
- Exams are written after each Chapter. By departmental policy, students are REQUIRED to pass each chapter exam with a score of 70% or better and the final exam with a score of 60% or better. Failure to do so will required the student to take a MAKE UP exam and pass it with a score of 70% or better. A failed final exam must be made up and achieve a score of 60% or higher, however, 60% of the total points possible will be used to calculate the course grade.
- Make up exams are written in the Testing Center (TTC) located in La’akea Hale. Students must make prior arrangements with the instructor before taking any make up exams.
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.