MATH 75X INTRODUCTION TO MATHEMATICAL REASONING

4 Credits
Time: MWF 1:00 pm - 2:15 pm
MyMathLab Course ID: bajor59692

INSTRUCTOR: Ruth C. Bajor
OFFICE: Hale Kakoo 107
OFFICE HOURS: Tuesday and Thursday, 1:30 pm – 3:00 pm
TELEPHONE: 808-236-9280
EMAIL: rbajor@hawaii.edu
EFFECTIVE DATE: Fall 2016

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

Activities may include completion of MyMathLab assignments, homework, consultation with instructor, or any activity that the student must complete outside of regularly scheduled class time.

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, quizzes, or Exams.
Course Tasks

Student grades are based on class participation (attendance), quizzes, homework, and exams.

There are 4 departmental chapter exams (Ch 1, 2, 3, and 4) and a departmental final exam that are required for this course.

- Graphing calculators are **NOT** allowed.
- For the Chapter 1 exam, **NO** calculator is allowed. For all other chapter exams and the final exam, a scientific calculator is allowed.
  
  **Note:** Students are **NOT** allowed to use the calculator on their cell phones for the exam.

- Students must attain a minimum 70% for each chapter exam and a minimum 60% for the final exam to be able to earn a grade of C or better for this course.
- All chapter exams have a 75-minute time limit.

Retest Policy:

- Students have one opportunity to retake every chapter exam to either meet the 70% minimum or to improve their grade if the minimum was already achieved in the in-class version of the exam (first attempt). Only the higher score will be recorded.
- For the final exam, only the students who do not make the minimum 60% on the final exam will be given an opportunity to retest the final exam. However, the maximum score for the final exam retest is just 60% of the points for the final exam in order to meet the department requirement.
- Retest can only be made within 2 weeks after the exam schedule.
- Students who participate all the way through the course and who are not able to meet the department minimum requirement because of one test will be given the N grade.
- Students who scored below 70% are required to meet with the instructor for more feedback on how to improve their grade. However, everyone who wants to take a retest are required to do review problems either online or via a worksheet assigned by the instructor before they can take a retest.

Assessment Tasks and Grading

Student progress will be determined by the evaluation of exams, quizzes, assigned homework, and class participation.

<table>
<thead>
<tr>
<th>Task</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>5%</td>
</tr>
<tr>
<td>Class work</td>
<td>10%</td>
</tr>
<tr>
<td>Homework</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Chapter Exams</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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</tbody>
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All student work will be evaluated according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
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<tbody>
<tr>
<td>A</td>
<td>90% – 100% of the cumulative points possible.</td>
</tr>
<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>below 60% of the cumulative points possible.</td>
</tr>
<tr>
<td>N</td>
<td>definition listed below</td>
</tr>
<tr>
<td>Cr</td>
<td>70% – 100% of the cumulative points possible</td>
</tr>
<tr>
<td>NC</td>
<td>less than 70% of the cumulative points possible</td>
</tr>
</tbody>
</table>

Students who cannot perform well and may want to stop coming or participating in the class should either withdraw or opt for CR/NC grading instead of the A, B, C, D, F grading system. Students who wish to opt for the CR/NC grading system must submit the required paperwork to the Admissions and Records Office by the posted deadline which is usually the same as the withdrawal deadline.

**Note:** The N grade is an optional grade. Instructors do not have to give an N grade. "The 'N' grade indicates that the student has worked conscientiously, attended 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."

**Learning Resources and Materials**

**Mathematics in Action, An Introduction to Algebraic, Graphical, and Numerical Problem Solving, 5th ed.,** by The Consortium for Foundation Mathematics.

**MATH LAB:**La‘akea 220 – free drop-in tutorial assistance

**UH Manoa Online Learning Academy:** [http://manoa.hawaii.edu/ola/](http://manoa.hawaii.edu/ola/)
Free online tutorial assistance M – F: 9 am to 10 pm and Sundays: 5 to 10 pm

**Brainfuse:** [http://windward.hawaii.edu/Brainfuse/](http://windward.hawaii.edu/Brainfuse/)
Free online tutorial assistance accessed via the MyUH portal.

**Scientific Calculator**

**MyMathLab (Course ID: bajor59692)** – an access code is needed.
Additional Information

• No phone calls or texting in class
• There is no make-up for quizzes and two lowest quiz scores will be dropped.
• Late homework will be accepted with a late penalty.
• Make-up exams will only be given with documentation.

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.