Multi-Level Class  
(Math 20, Math 22, Math 24, Math 25)

INSTRUCTOR: Clayton K. Akatsuka, Professor, Mathematics

OFFICE: Alakai 130

OFFICE HOURS:
M 9:30 am – 10:30 am, 12:30 pm – 1:00 pm;
T 9:30 am – 10:30 am;
W 9:30 am – 10:30 am, 12:30 pm - 1:00 pm;
Th 9:30 am – 10:30 am;
or by appointments.

TELEPHONE: 236-9279

e-mail: akatsuka@hawaii.edu

EFFECTIVE DATE: Spring 2010

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

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.

CATALOG DESCRIPTION

This multi-level class utilizes an alternate mode of instruction for students enrolled in developmental courses (MATH 20-Basic Mathematics, MATH 22-Pre-Algebra, MATH 24-Elementary Algebra I and MATH 25-Elementary Algebra II). In this mode, students are still required to attend class to spend time on task. Students will be using the same text, satisfying the same student learning outcomes, taking the same departmental tests and cumulative final exam, and held to the same standard or level of mastery as any other student enrolled in the same course. Students are required to purchase the access code for MathXL. In addition to their work on the computer, students will be required to demonstrate their ability to do “pencil and paper” work.
STUDENT LEARNING OUTCOMES

The student learning outcomes for MATH 20, MATH 22, MATH 24 and/or MATH 25 are listed in the catalog.

COURSE CONTENT

Refer to the course description in the catalog for the course content of MATH 20, MATH 22, MATH 24 and/or MATH 25

COURSE TASKS

The mode of instruction is computer assisted instruction using MathXL. In addition to the instructor, two student assistants will be available in the class to help students. Students begin by taking a “diagnostic” test to determine their areas of mastery and areas that need to be worked on within each chapter of their course. They will meet individually with the instructor to review the diagnostic test results and their course plan. This course plan is customized for each student and it delineates the section assignments, chapter reviews, and unit tests the student needs to work on to receive credit and a passing grade for the course. The students will be using the text, satisfying the same student learning outcomes, taking the same tests and final exams, and held to the same standards or level of mastery as any other students enrolled in the same course. Upon completing all the work outlined in their course plan, the student will receive credit and an appropriate grade for the course (MATH 20, MATH 22, MATH 24 or MATH 25). The student may decide to enroll in the next course if it is within the allowable deadlines and continue as outlined above, or choose to wait until the start of the next semester to enroll in another mathematics course. If the student chooses to wait until the next semester to enroll in another mathematics course, then the student is released from the class.

Students transferring to this Multi-level class upon a referral by their instructor, have the option to transfer their chapter test scores taken in their original class or to retake their earlier tests.

ASSESSMENT TASKS AND GRADING

Points will be assigned to each graded assignment, class activity, and tests as follows:
1. **Homework.** Homework sets are determined by a student’s Study Plan. MathXL generates a personalized study plan for each student based on his or her “diagnostic” test result for a chapter. The study plan links directly to interactive tutorial exercises for topics the student hasn’t yet mastered. When working on exercises, copy down the problem on your paper, work out the problem, then submit the answer online. Assignments must demonstrate the student’s ability to show their work neatly and completely, and be submitted in written form (pencil and paper) to the instructor. The instructor will be checking the written work periodically in class to insure that the students are showing their work correctly and progressing through their study plan. Students must complete the Chapter Test problems on-line (at the 80% level or higher) and submit a completed “paper and pencil” version prior to taking a test for the chapter.

2. **Chapter Test and Chapter Quiz.** Chapter tests and/or unit quizzes are taken in the Testing Center at the end of each chapter. A chapter test (pencil and paper version only) will be 50 minutes in length and will be scored on a 100-point scale. A unit quiz will be 30 minutes in length and will be scored on
a 50-point scale. The student must achieve a minimum of 70% of the possible points for each unit test and quiz. Without this minimum requirement, a passing grade and credit for the course are not possible.

**Retests.** After each chapter test, a chapter retest deadline will be posted. One retest is allowed without penalty for each chapter test if it is done by the posted chapter retest deadline. The better of the two test scores will count towards your grade. No retests will be given after the chapter retest deadline. Retests are arranged by appointments with your instructor. The same applies for each unit quiz.

To take a retest, all of the following must be met:

a) All problems from the Chapter Test at the end of the chapter must be completed and turned in to the instructor.

b) The student must meet with the instructor to review mistakes made on the first form of the test taken.

c) Additional math activities as designated by the instructor must be completed.

d) The retest must be taken by the designated chapter retest deadline.

5. **Final Exam.** The final exam will cover the concepts and skills in the entire course. The final exam is one hour, fifty minutes in length and will be scored on a 200-point scale. The student must achieve a minimum of 60% of the possible points for the final exam. Without this minimum requirement, a passing grade for the course is not possible.

No retesting for the final exam is available unless the 60% minimum is not met and the 70% minimum per chapter test and quiz was met. In that event, a retest of the final exam is possible, however, the maximum score is 60% of the possible points for the final exam.

**Make-up.** Make-up opportunity for a chapter test or final exam will be possible only upon a timely presentation of a serious and justified explanation of the student’s absence from the class test. The instructor has the right to request documentation of the student’s absence from the class and to determine if the absence from the class test is justified. A make-up test must be taken within one week of the in-class test unless otherwise specified by the instructor. **No more than one test or quiz may be taken by a student on a make-up basis.**

**Course grade.** If the student has achieved a minimum of 70% of the possible points for each unit test and unit quiz, and a minimum of 60% of the possible points for the final exam, then a letter grade for the course will be assigned according to the level of achievement (based on the total points earned) as provided in the table below:

<table>
<thead>
<tr>
<th>GRADE</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100% of the total possible points</td>
</tr>
<tr>
<td>B</td>
<td>80% - 89% of the total possible points</td>
</tr>
<tr>
<td>C</td>
<td>70% - 79% of the total possible points</td>
</tr>
<tr>
<td>Cr</td>
<td>70% - 100% of the total possible points</td>
</tr>
<tr>
<td>NC</td>
<td>Less than 70% of the total possible points</td>
</tr>
<tr>
<td>D</td>
<td>60% - 69% of the total possible points</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60% of the total possible points</td>
</tr>
</tbody>
</table>

Note: Students must apply for the Cr/NC grading option at the Admissions Office. Consult the WCC Catalog for deadlines.
Note: W grade is given only when the student officially withdraws from the course at the Admissions Office. Consult the WCC Catalog for deadlines.

**LEARNING RESOURCES**


**Activities Required at Scheduled Times Other Than Class Times**

Homework, Math Lab or TTC activities as needed.
Math Lab: Alakai 125
TTC: Alakai 106

**Additional Information**

1. Grading on Homework, Quizzes or Tests. To receive full marks for problems done on any graded activity, you must show your work neatly and completely as well as provide clear written explanations when it is asked for. Partial credit may be awarded.

2. Absences. It is your responsibility to attend every class meeting. If you are absent frequently or for an extended period of time, contact the instructor as soon as possible to discuss your situation. Absences and tardiness to class can have a negative impact on your success in this course.

3. Homework. For each chapter, as you read through each section, it is recommended that you write down the words, phrase or math symbols and their meanings, formulas, and properties/rules that are important for each section. It is important for you to know these.

   After reading through each section carefully, try the suggested odd numbered problems in each section. The answers to the odd numbered problems are available at the back of the textbook. Do as many as you feel is necessary to help you learn and understand the material and become comfortable with the concepts and/or properties. If you have difficulty solving problems in the section, review the material in the text and your class notes. Many examples are solved. Review the solutions to these problems. If, after checking these sources and trying to find your mistakes, you are still unable to solve a problem correctly, make a note of the exercise number so that you can ask someone for help with that problem.

   Mathematics is not a spectator sport. To succeed in mathematics, you must do problems. It is often necessary to practice a skill more than the instructor requires. For example, a textbook may provide 50 practice problems in a section and the instructor may assign only 25 of them. However, some students may need to do 30, 40, or all problems. If you are an accomplished athlete, musician, or dancer, you know that long hours of practice are necessary to acquire a skill. Do not cheat yourself of the practice you need to develop skills taught in this course.

4. Calculators are **not** allowed on tests or the final exam.