MATH 25 – Elementary Algebra II
3 Credits

INSTRUCTOR: Mark Hedley
OFFICE: TBD
OFFICE HOURS: 9:30 - 10:20 MTThF
TELEPHONE: TBD
e-mail: hedley@hawaii.edu
EFFECTIVE DATE: Summer II 2015

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 Koʻolau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

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 course is a continuation of MATH 24 – Elementary Algebra I representing approximately the second half of a typical year course in algebra. Topics include exponents, polynomials, factoring, rational expressions and equations, radical expressions and equations, and quadratic equations.

STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:
1. Utilize precise mathematical language and symbols in written and/or oral form.
2. Demonstrate proficiency in performing operations with real numbers and variable expressions.
3. Interpret equations geometrically and identify key characteristics.
4. Employ algebraic techniques to find the solution for equations.
5. Use algebraic techniques to analyze and solve applied problems.
6. Graph a linear equation in two variables, find slope and apply it to finding the equation of a line.
7. Employ algebraic techniques to factor a polynomial.
8. Demonstrate proficiency in the use of the rules of exponents and its applications to scientific notation.

**COURSE CONTENT**

<table>
<thead>
<tr>
<th>Concepts or Topics</th>
<th>Skills or Competencies/Responsibilities of Students. Success in this course will be enhanced by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Exponents and Polynomials</td>
<td>1. a positive, inquiring attitude towards learning mathematics;</td>
</tr>
<tr>
<td>• Factoring and Applications</td>
<td>2. setting aside adequate time for studying and working of problems;</td>
</tr>
<tr>
<td>• Rational Expressions and Applications</td>
<td>3. reading the text carefully and making use of other learning materials whenever necessary;</td>
</tr>
<tr>
<td>• Root and Radicals</td>
<td>4. seeking assistance from the instructor and the Math Lab personnel whenever necessary;</td>
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<tr>
<td>• Quadratic Equations</td>
<td>5. completing assignments by the designated date;</td>
</tr>
<tr>
<td>• Linear Equations in Two Variables</td>
<td>6. regular class attendance, participation and maintaining accurate class notes.</td>
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</tbody>
</table>

**COURSE TASKS**

The mode of instruction is primarily discussion-problem solving where the initial portion of each class period may be utilized to discuss and clarify any questions from the preceding class meeting and/or assignment, and the remaining portion is used to discuss new material. Lectures, directed student explorations, group work, appropriate technologies, and projects will also be used as appropriate. After the completion of each unit, a review and an exam will be conducted.

**ASSESSMENT TASKS AND GRADING**

The student will demonstrate competency in the objectives by participating in and completing all class activities, by completing and turning in all assignments as requested, by taking unit tests, and by taking a final exam over concepts and skill covered in the entire course. Class activities, unit tests, and the final exam are to be taken in the classroom and without any references unless otherwise stipulated by the instructor.

It is the student’s responsibility to obtain and complete all assignments that are given in any class meeting for which the student is unable to attend. Unless permission is granted by the instructor beforehand, assignments and tests must be completed and submitted to the instructor at the specified date and time.

Points will be assigned to each graded assignment, class activity, and tests as follows:

1. **Homework.** Homework sets will be graded on a 0 - 3 point scale. Assignments are due at the next class meeting to the instructor. Late homework may be accepted with grade penalty.

2. **Class Activity.** Class activities are done in class only. Class activities will be graded on a 0 - 3 point scale. There is no make-up for a missed class activity. Students must be present in class to participate.
3. **Chapter Test.** The five chapter tests are given in class at the end of each chapter. A chapter test will be 50 minutes in length and will be scored on a 100-point scale. **The student must achieve a minimum of 70% of the possible points for each unit test.** Without this minimum requirement, a passing grade for the course is not possible.

**Retests.** After each chapter test, a chapter retest deadline will be given. One retest is allowed without penalty for each chapter test if it is done by the specified 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.

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.

4. **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 60% minimum per chapter test 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 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 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 as provided in the table below:

<table>
<thead>
<tr>
<th>GRADE</th>
<th>DEFINITION</th>
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<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>
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<tr>
<td>F</td>
<td>Less than 60% of the total possible points</td>
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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 form 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 Center, TRiO or Testing Center activities as needed.
Math Center: Mana 113
Testing Center: LLC 228 (Summer hours: M-F, 8:00 am – 4:00 pm)

Additional Information

1. Grading on Homework, Class Activities 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. Even if you are absent, you are responsible for those topics and examples covered in class that you missed. Furthermore, you are responsible for obtaining any important announcements and assignments given during the class you missed. 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. Calculator use is not allowed on quizzes, tests and exams.
5. Cell phone use is not allowed in class. Please have respect for your neighbors and instructor by taking all cell phone activity outside of the classroom.

**TENTATIVE SCHEDULE – MATH 25**
SUMMER II 2015 – Hedley
MTRF 10:30 am – 12:20 am

<table>
<thead>
<tr>
<th></th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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</thead>
<tbody>
<tr>
<td>JUL  6</td>
<td>Orientation 5.1, 5.2</td>
<td>JUL 7 Orientation 5.3, 5.4</td>
<td>JUL 9 5.5, 5.6</td>
<td>JUL 10 5.7, 6.1 Exam Review</td>
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<tr>
<td>JUL 13</td>
<td>Exam Review Exam – Ch5</td>
<td>JUL 14 6.2, 6.3</td>
<td>JUL 16 6.4, 6.5</td>
<td>JUL 17 6.6, 7.1 Ch5 retest deadline</td>
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<tr>
<td>JUL 20</td>
<td>Exam Review Exam – Ch6</td>
<td>JUL 21 7.2, 7.3</td>
<td>JUL 23 7.4, 7.5</td>
<td>JUL 24 7.6, 7.7 Ch6 retest deadline</td>
</tr>
<tr>
<td>JUL 27</td>
<td>Exam Review Exam – Ch7</td>
<td>JUL 28 8.1, 8.2</td>
<td>JUL 30 8.3, 8.4</td>
<td>JUL 31 8.5, 8.6 Ch7 retest deadline</td>
</tr>
<tr>
<td>AUG  3</td>
<td>8.7 Exam Review</td>
<td>AUG 4 Exam Review Exam – Ch8</td>
<td>AUG 6 3.2, 3.3</td>
<td>AUG 7 3.4, 9.1</td>
</tr>
<tr>
<td>AUG 10</td>
<td>9.3, 9.5 Ch8 retest deadline</td>
<td>AUG 11 Exam Review Exam – Ch3,9</td>
<td>AUG 13 Final Exam Review</td>
<td>AUG 14 Ch3,9 retest deadline Final Exam 8:30am – 10:20am</td>
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