

MATH 25 ELEMENTARY ALGEBRA II

3 Credits

Time: Tuesday, Thursday 5:30-6:45 PM

INSTRUCTOR: Kimlynn Lee Slagel

OFFICE: Mana`opono 107

OFFICE HOURS: Tuesday 5:00-5:30 PM, Thursday 6:45-7:15 PM

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EFFECTIVE DATE: August 25, 2009

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.

Catalog Description

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

STUDENT LEARNING OUTCOMES

Students will be able to:

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 quadratic equations algebraically and graphically, identifying key characteristics.
4. Employ algebraic techniques to find the solution for equations.
5. Use algebraic techniques to analyze and solve applied problems.
6. Demonstrate proficiency in the use of the rules of exponents and its application to scientific notation.
7. Employ algebraic techniques to factor a polynomial.
8. Graph a linear equation in two variables, find slope and apply it to finding the equation of a line.

COURSE CONTENT (may be part of the appendix)

Concepts or Topics

- **Exponents and Polynomials**
- **Factoring Polynomials and Applications**
- **Rational Expressions and Applications**
- **Roots and other Radical Expressions**
- **Quadratic Equations**
- **Linear Equations**

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.

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

Total points accumulated in the three categories, homework, chapter/unit exams, and class work determines the course grade.

Grades as assigned as follows:

GRADE	DEFINITION
A	90-100% of the weighted points
B	80-89% of the weighted points
C	70-79% of the weighted points
D	60-69% of the weighted points
F	Less than 60% of the weighted points
Cr	70-100% of the weighted points
NC	Less than 70% of the weighted points
W	Withdrawal results in no grade assigned. A W is given only when the student officially withdrawals from the course at the Admissions Office. Consult the WCC Catalog for deadlines.
I	Incomplete - given when a student has failed to complete a small part of the course due to circumstances beyond his/her control.
N	No course credit awarded. Consult the WCC Catalog for further explanation.

Note: Cr/NC, W grades require written instructor consent. Students must apply for Cr/NC grading option or withdraw at the Admissions Office by the 10th week of classes.

The student must achieve a minimum of 70% of the possible points for each unit exam. Furthermore, the student must achieve a minimum of 60% of the possible points for the final exam. Without these two minimum requirements, a passing grade and credit for the course is not possible.

HOMEWORK

- Homework assignments will be graded on completeness and accuracy of the problem set.
- Homework is weighted 20% toward the course grade.
- Only assignments handed in on time are eligible for full credit. Homework handed in more than one week late will NOT receive credit.

EXAM

- Exams are written after the completion of each chapter/unit. One class session will be devoted to reviewing the material before the exam.
- Exams are weighted 70% towards the course grade.
- NO calculators are permitted on WCC Math Department written exams.

CLASS WORK

- Class participation makes up 10% of the course grade.
- Class participation includes offering solutions at the board, completing problem sets or other activities given in class and contributing to class discussions.

RETEST

- Retests are offered to students for exams I-V. Anyone may take a retest to improve his/her grade. However, students scoring less than 70% of the points on a chapter/unit exam MUST take the retest.
- Students must complete the online MathXL assignment with a 80% or better proficiency BEFORE taking the retest.
- The higher of the two exam scores will be used towards the semester grade.
- Retests are given at The Learning Center (TLC) but must be pre-arranged with the instructor before taken.
- Retests must be completed before the deadline given on the Course Calendar. Students are given approximately one week to complete the retest.
- Retest for the final exam is offered to students that score less than 60%.

MAKE UP EXAMS

- Make up exams are offered ONLY to students with valid excuses for missing the original exams.
- Valid excuses must be submitted to the instructor in writing, via email or in person at least 24 hours before the scheduled exam.
- Make up exams are given at TLC and must be completed before the same deadline dates as the retests.
- The instructor reserves the right to refuse the opportunity of a make up exam if she feels the student is abusing the privilege.

Learning Resources and Materials

Beginning Algebra, 9th ed., a custom edition for WCC, by Lial, Hornsby, & McGinnis
MathXL software www.mathxl.com

Additional Information

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.