UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES

PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

1. TYPE OF ACTION
   A. Addition
      [ ] Regular   [ ] Experimental   [ ] Other __________________ (specify)
   B. Deletion
   C. Modification
      [ ] in credits [ ] in title [ ] in number or alpha [ ] in prerequisites [X] Other change in content __________________ (specify)

2. NEW ALPHA, NUMBER AND TITLE
   __________________

3. CREDITS ______

4. OLD ALPHA, NUMBER AND TITLE
   MATH 25 - Elementary Algebra II
   __________________

5. CREDITS ______

6. NEW 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.

7. PREREQUISITES
   Grade of "C" or better in MATH 24 or equivalent, satisfactory math placement test score, or consent of instructor.

8. STUDENT CONTACT HOURS PER WEEK
   Lecture 3 Lecture/Lab ______ Lab ______
   Other (specify) ______

9. PROPOSED DATE OF FIRST OFFERING
   Spring 1999

10. THIS COURSE [ ] IS REQUIRED [ ] IS AN ELECTIVE FOR THE WCC PROGRAM/CORE (Please specify) (Circle approp.)
    [ ] CAN FULFILL ___________ REQUIREMENT (Please specify)

11. THIS COURSE [ ] INCREASES [ ] DECREASES [X] MAKES NO CHANGE IN NUMBER OF CREDITS REQUIRED FOR THE PROGRAM/CORE

12. SIMILAR COURSES OFFERED ELSE WHERE:
    College(s): Kapiolani CC & Maui CC
    Alpha, Number, Title: MATH 25 - Elementary Algebra II
    Honolulu CC
    MATH 25 - Elementary Algebra II (effective Fall 1998)
    Hawaii CC & Kauai CC
    MATH 25X - Elementary Algebra II

13. THIS COURSE IS [ ] ALREADY ARTICULATED
    with ____________________
    [ ] APPROPRIATE FOR ARTICULATION
    with ____________________
    [X] NOT YET APPROPRIATE FOR ARTICULATION
    (Provide details of existing or desired articulation (date, college(s), purposes, pre-major or major, etc.)

14. REASON FOR INITIATING, MODIFYING OR DELETEING COURSE OR OTHER PERTINENT COMMENT:
    To enhance the uniformity of course content of MATH 25 amongst the CC's, which would make it easier for students to transfer between campuses while taking the MATH 24/25 sequence.

REQUESTED BY:  
Department Chairperson  1/22/98  
CURRICULUM COMMITTEE  
EliK. Andrus  2/17/98  
Dean of Instruction  2/19/98  
Provost  3/24/98

CHANGE RECORDED BY CATALOG PREPARER

CCCM #6100
(Amended for WCC use Sept. 1991)
# Levels of Review of Course Proposals at WCC

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Dates</th>
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<tbody>
<tr>
<td><strong>1. Subject Area (one or more instructors in the area)</strong></td>
<td>1-22-98</td>
</tr>
<tr>
<td>Clay K. McLain</td>
<td>1/22/98</td>
</tr>
<tr>
<td>Jean Okumura</td>
<td>1/22/98</td>
</tr>
<tr>
<td>Writing Standards</td>
<td>1/22/98</td>
</tr>
<tr>
<td>Jon Allman</td>
<td>1/22/98</td>
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<tr>
<th><strong>2. Department</strong></th>
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<tr>
<td>Jean Okumura</td>
<td>1/22/98</td>
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</table>

Department Chairperson

Was this course discussed in a dept. mtng. **Yes** | 1/15/98 and 1/22/98

<table>
<thead>
<tr>
<th><strong>3. Division</strong></th>
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<tbody>
<tr>
<td>Michael Garcia</td>
<td>1-22-98</td>
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Assistant Dean of Instruction

<table>
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<th><strong>4. Curriculum Committee Review</strong></th>
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<tbody>
<tr>
<td>Approved</td>
<td>X</td>
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Disapproved

Reason:

<table>
<thead>
<tr>
<th><strong>Curriculum Committee Chairperson</strong></th>
<th></th>
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<tr>
<td>David Devlin</td>
<td>1/28/98</td>
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</table>
WCC FORM FOR COURSE MODIFICATIONS

Course MATH 25 - Elementary Submitted by Clayton Akatsuka Date 1/20/98

Algebra II

1. What change is proposed in the course? Provide specific information comparing both the "new" and "old" course.
The "new" MATH 24 and MATH 25 courses will still cover all topics in elementary algebra (as do the "old" MATH 24 and MATH 25) but in a different order.

2. What is the rationale for the change?
This reorganization of topics will align these courses with those offered by all CC's except Leeward CC. Then, our students will encounter the least amount of trouble if they transfer from WCC to another CC (except Leeward) between taking MATH 24 and MATH 25.

3. Is the change substantive enough to require a change in course identification? If so, explain thoroughly.
No.

4. Is the course articulated with any 4-year program? No
If yes, give details of the agreement(s) and explain any impact the proposed modifications may have on articulation.

5. Provide details of any additional staff, equipment, facilities, library/media material, faculty preparation and other financial considerations that would be required to implement this course modification. What has been done to provide for these additional costs? Who will teach the course? Is additional preparation needed?
No Changes.

6. Will this course modification result in any alterations in the number of hours required to attain a certificate or degree? No
If yes, provide details and justification for these alterations.

7. If the course is renumbered to 100 or above, does it meet the criteria for transfer level courses? (See attached criteria for transfer courses.)

WCC 9/91
WINDWARD COMMUNITY COLLEGE
OUTLINE OF COURSE OBJECTIVES

COURSE NAME: Elementary Algebra II
COURSE NUMBER: MATH 25
COURSE CREDITS: 3 credits

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

PREREQUISITES: Grade of "C" or better in MATH 24 or equivalent, satisfactory math placement test score, or consent of instructor.

REQUIREMENTS COURSE SATISFIES AT WCC: None.


ACTIVITIES REQUIRED AT SCHEDULED TIMES OTHER THAN CLASS TIMES: Homework.

EFFECTIVE DATE: Spring 1999
A. Goals of the Course

The goals of the course are:
1. To provide the student with fundamental concepts, properties and applications of elementary algebra.
2. To provide the student with mathematical background necessary to pursue advanced work in mathematics and in other areas.
3. To cultivate and enhance the student's mathematical ability to reason.
4. To develop and stimulate the student's problem-solving ability within the domain of mathematics.
5. To promote greater student appreciation and awareness of the role of algebra in the environment and culture.

B. Objectives of the Course

Upon completion of the course, the student will be able to:
1. Employ algebraic concepts in finding the solution for equations.
2. Investigate and interpret equations geometrically.
3. Demonstrate proficiency in algebraic notation.
4. Employ and derive algebraic techniques to solve practical problems.
5. Identify, analyze, discuss and apply concepts and principles of the real number systems, exponents, radicals, polynomials, rational expressions, and quadratic functions and equations.
D. Mode of Instruction

The mode of instruction is primarily lecture-discussion. 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. After the completion of each unit of instruction, a review and an exam will be conducted.

E. Method of Grading

The student will demonstrate competency in the objectives by turning in assignments as requested, by taking in-class unit exams and quizzes, and by taking a final exam over concepts and skills covered in the entire course. Exams and quizzes are to be taken within the classroom environment and without any references unless otherwise stipulated by the instructor.

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

Points will be assigned to each exam, graded quiz and assignment that counts towards the student's grade. The student must achieve a minimum of 60% of the possible points for each unit exam. Furthermore, the student must achieve a minimum of 50% of the possible points for the final exam. Without these two minimum requirements, a passing grade and credit for the course is not possible.

Each letter grade for the course will be assigned according to the level of achievement as provided in the table below:

<table>
<thead>
<tr>
<th>Letter 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>Cr</td>
<td>70% - 100% of the cumulative points possible</td>
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<tr>
<td>N or NC</td>
<td>Less than 70% of the cumulative points possible</td>
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<tr>
<td>W</td>
<td>Official Withdrawal</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete - given when a student has failed to complete a small part of the course due to circumstances beyond his/her control.</td>
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</table>
Note: Cr/NC grades require written instructor consent. Students must apply for Cr/NC grading option at the Admissions Office by the 10th week of classes.

Note: W grade is given only when the student officially withdraws from the course at the Admissions Office by the 10th week of classes.
Syllabus for MATH 25 - Elementary Algebra II

1. Polynomials and Exponents (3 weeks)
2. Factoring and Applications (3 weeks)
3. Rational Expressions (3.5 weeks)
4. Roots and Radicals (3.5 weeks)
5. Quadratic Equations (2.5 weeks)