## UNIVERSITY OF HAWAII COMMUNITY COLLEGES
### PROPOSAL TO INITIATE, MODIFY OR DELETE A COURSE

**CCCM #6100**  
(July 26, 1979)

### TYPE OF ACTION (circle appropriate)

- **A.** Addition  
  1. Regular  
  2. Experimental  
  3. Other  

- **B.** Deletion

### NEW ALPHA, NUMBER AND TITLE

- MATH 024 - Elementary Algebra I

### OLD ALPHA, NUMBER AND TITLE

- MATH 025 - Elementary Algebra (in part)

### NEW DESCRIPTION

This course approximately represents the first half of a typical first year algebra course. Topics normally include real numbers and their properties, linear equations, polynomials and their operations, graphs, and algebraic applications.

### PREREQUISITES OR RECOMMENDED PREPARATION

- MATH 001 or equivalent

### B. STUDENT CONTACT HOURS PER WEEK

- **3** Lecture  
- **Lab** (specify)

### 9. PROPOSED DATE OF FIRST OFFERING

- FALL 1981

### THIS COURSE IS (REQUIRED) (ELECTIVE) FOR THE PROGRAM

- **NOT APPLICABLE**

### THIS COURSE (INCREASES) (DECREASES) (MAKES NO CHANGE) IN THE NUMBER OF CREDITS REQUIRED FOR THE PROGRAM

- **NOT APPLICABLE**

### SIMILAR COURSES OFFERED ELSEWHERE

- **College(s)**  
  - Honolulu Community College  
  - Kapiolani Community College

#### MATH, Number, Title:
- MATH 024 - Elementary Algebra I
- MATH 025 - Elementary Algebra (in part)

### THIS COURSE IS (ALREADY ARTICULATED) (APPROPRIATE FOR ARTICULATION)  
(1NT APPROPRIATE FOR ARTICULATION)

### PROVIDE DETAILS OF EXISTING OR DESIRED ARTICULATION (Date, college(s), purposes, pre-major or major, etc.):

- Identical courses offered at Kapiolani and Honolulu Community Colleges - refer to the 1979-80 or 1980-81 catalogs.

### REASON FOR INITIATING, MODIFYING OR DELETING COURSE OR PERTINENT COMMENT:

- Math 025 - Elementary Algebra (4 credits) will be taught as two (3 credit) courses; Math 024 - Elementary Algebra I and Math 025 - Elementary Algebra II. This will more adequately serve the needs and the goals of WCC's students.

### REQUESTED BY

- Math/Natural Science  
- Department/Division  
- Chairperson  
- Date

### APPROVED BY

- Curriculum Committee  
- Date

- (Other required campus signature)  
- Date

- Dean of Instruction  
- Date

- Provost  
- Date
LEVELS OF REVIEW OF COURSE PROPOSALS AT WCC

1. Subject Area (one or more instructors in the area)
   - David Furuto
   - John Lilienthal
   - Sione Uluave
   - Jean Yoshida
   Signatures: David M. Furuto, John Lilienthal, Sione Uluave, Jean Yoshida
   Dates: 11-12-80

2. Division
   - Pearl Takeuchi
   Department Chairperson: Pearl Takeuchi
   Date: 11-12-80

3. Administrative Confirmation of System Requirements
   Signature: [Signature]
   Date: 1/17/80

4. Curriculum Committee First Review
   - Disapproved
   Reason:
   Further Information Required
   Please provide the following:
   Approved for review by other divisions
   Curriculum Committee Chairperson: [Signature]
   Date: [Date]

5. Curriculum Committee Second Review
   - Approved
   - Disapproved
   Reason:
   Curriculum Committee Chairperson: [Signature]
   Date: [Date]
WCC CURRICULUM REVIEW FORM I

FORM FOR COURSE PROPOSALS

A. Information Needed for Processing ALL Course Proposals

Course Title: MATH 024 - Elementary Algebra I

Transfer X Non-transfer

Submitted Jean K. Yoshida for Math Faculty Date 11-12-80

1. Course Objectives:
   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 physical sciences.
   3. To promote greater student appreciation and awareness of the role of algebra in the environment and culture.
   4. To employ algebraic concepts in finding solution sets of equations.
   5. To investigate and interpret equations geometrically.
   6. To employ and derive algebraic techniques to solve problems.
   7. To familiarize students with terminology used in elementary algebra.
   8. To identify, discuss and apply concepts and principles of the real number system, polynomials, linear equations, exponents, and graphing.

2. Provide details of additional staff, equipment facilities, library/media material and equipment, other financial support that would be required to implement the new course or the course modification.

   Has this additional cost been included in the budget for the proposed date of offering? Include in estimate of actual cost of supplies and equipment in addition to cost already budgeted by the discipline.

Question #2 is not directly applicable. Since MATH 025 is currently offered by WCC, no major changes vis a vis the above are anticipated.
B. Information Needed to Process Course Modification Proposals ONLY

1. What change is proposed in the course? Provide specific information on both the new and the old course.

2. Is the submitted change enough to require a change in course identification? If so, explain thoroughly.

3. If the course is articulated with any four year program, give details and dates of agreement(s) and explain any impact the proposed change may have on articulation.

4. Will this change alter the number of hours required to attain a certificate or degree? If so, provide details and justification.
C. Information Needed to Process New Course Proposals

1. Course relation to EDP of the College:
   This course is a step toward the EDP. The EDP calls for the modularization of the Elementary Algebra Program.

2. Program course in (Please give some information concerning the status of the program and the relation of the course to the program):
   Mathematics - This is part of a series of developmental mathematics courses which prepares students with the skills necessary for college level mathematics courses.

3. Independent work by students:
   Not Applicable.

4. Rationale for articulation with UHM General Education Core--attach Windward Community College Form 3 for transfer course criteria, if appropriate:
   This course develops skills that aid in the successful completion of Math 100 or higher levels of mathematics.

5. If similar to an upper division course, explain community college application:
   Not Applicable.

6. If course is experimental and unique to Windward Community College, indicate additional rationale and impact on college curriculum, if appropriate:
   Not Applicable.

D. Attach Course Outline for New Course Proposals or for Course Modifications that Involve Changes in Content, Syllabus, or Time Schedule. Use the Windward Community College FORM 2: General Course Outline for Proposed Course. A student course outline may be submitted, if it indicates the syllabus, content, and time schedule of the proposed course.
WCC CURR. FORM 2

GENERAL OUTLINE FOR PROPOSED COURSE

Course: MATH 024 - Elementary Algebra I

Transfer: Nontransfer X New Modified

1. COURSE DESCRIPTION:
This course approximately represents the first half of a typical first year course in algebra. Topics normally include real numbers and their properties, linear equations, polynomials and their operations, graphs, and algebraic applications.

2. HOURS PER WEEK: LEC 3 LAB OTHER (150 min/wk/sem; 300 min/wk/term) TOTAL 3

3. PREREQUISITES:
MATH 001 or equivalent

4. SPECIFIC COURSE OBJECTIVES:
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 physical sciences.
3. To promote greater student appreciation and awareness of the role of algebra in the environment and culture.
4. To employ algebraic concepts in finding solution sets of equations.
5. To investigate and interpret equations geometrically.

5. TEXTBOOK AND MATERIALS:

6. To employ and derive algebraic techniques to solve problems.
7. To familiarize students with terminology used in elementary algebra.
8. To identify, analyze, discuss, and apply concepts and principles, exponents, and graphing.


6. REFERENCE MATERIAL SAMPLES:
None

7. AUXILIARY MATERIALS:
None
GENERAL OUTLINE FOR PROPOSED COURSE

Course: MATH 024 - Elementary Algebra I

7. AUXILIARY MATERIALS:

None

8. METHODS OF INSTRUCTION:

The primary mode of instruction is lecture-discussion. A student may apply to the instructor for independent study. This option is available upon the concurrence of both the student and instructor.

9. EVALUATION:

Points will be assigned to each assignment and exam. The student must attain a score of at least 60% of the assigned points on all assignments, exams and a cumulative final exam to successfully complete this course. Each letter grade and its respective level of achievement is provided.

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<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
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<tr>
<td>B</td>
<td>80-89%</td>
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<tr>
<td>C</td>
<td>70-79%</td>
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<td>D</td>
<td>60-69%</td>
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<td>F</td>
<td>Below 60%</td>
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<tr>
<td>Cr</td>
<td>Achievement at C level or higher</td>
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<tr>
<td>NCr</td>
<td>Achievement at less than C level</td>
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10. OTHER

11. SYLLABUS: CONTENT AND TIME SCHEDULE:

1. Numbers of Ordinary Arithmetic and their properties
   Topics include decimals, fractions, percents, properties of the number system, formulas, exponents.

2. Integers and Rational Numbers
   Topics include operations with integers and rational numbers, properties of the rational numbers, integral exponents.

3. Solving Equations
   Topics include the principles involved with solving equations, formulas, solving word problems, graphs.

4. Polynomials and their operations
   Topics include addition, subtraction, multiplication, factoring of polynomials, solving equations and problems.