FACULTY SENATE CURRICULUM COMMITTEE Rev. 5-79

APPROVAL FORM

1) An approval form must accompany each proposal.

2) A proposed catalogue description of the course must accompany the proposal as a separate page.

3) Results of all consultations must be attached to the proposal.

Proposal Title Elementary Algebra

Sponsor(s) FRANMASAT / R. DARICO Dept. DEVED / MATH

Check One { Course ✓ Credit/Level/Title Change or deletion Other _____
Concentration _____ Specialization _____ Major Program _____ Certification _____

Graduate _____ Undergraduate ✓ No. of Credits 3

Approved / Not Approved _____	Division Curr. Comm.	Dean of Division
_____ Dept. Curr. Comm. Chairperson	Reviewed 4/21/82 Date	Reviewed 4/29/82 Date
_____ Date	Approved / Not Approved 4/21/82 Date	
Approved / Not Approved _____		
_____ Chairperson, Department	_____ Chairperson Div. Curr. Comm.	_____ Signature
4-1-82 Date		

SENATE CURRICULUM COMMITTEE

SCC # 82-96 Proposal Received 4/29/82 Open Hearing Held 5/13/82

Returned to the department for the following reason(s):

Approved by the Curriculum Committee: Date 5/13/82

Presented to Executive Committee of the Faculty Senate as information: Date _____

Notifications forwarded: Vice President for Academic Affairs: Date 7/[illegible]

_____

Signature: Chairperson, Senate Curriculum Committee

VICE PRESIDENT FOR ACADEMIC AFFAIRS

Official copy and approval sheet filed 5-19-82 _____
Date Signature

Course approved Yes — No _____

If no, reasons are as follows:

1.
2.
3.

Student credit hours assigned 3 - not to count for graduation

Faculty load hours _____

Equalized credit hours 3

REGISTRAR

Approved course description received and Hegis Taxonomy Number assigned

by Registrar Yes _____ No _____

Hegis Taxonomy Number 1711.10

_____ _____
Signature: Registrar Date

ACADEMIC DEAN

Yes Budget, faculty library allocations and Academic Support Services are adequate for immediate implementation.

No Constraints do not permit implementation. The earliest the proposal might be implemented would be _____

_____ _____
Signature: Academic Dean Date

Copies forwarded: Senate Curriculum Committee Chairperson, Department Chairperson, Registrar

GLASSBORO STATE COLLEGE

COURSE PROPOSAL

1. Title of the Course: Elementary Algebra

   Department: Mathematics and Computer Science

   Sponsor: Mathematics and Computer Science Department and Developmental Education

   Initiator: Dr. Fran Masat and Dr. Claude Damico

2. Essence:

   a. Undergraduate Course

   b. Credit: 3 s.h. (for non-graduation credit)

   c. Level: Freshman

   d. Prerequisites: Developing or Improving Computational Skills or equivalent

   e. Effects on curricular pattern: The proposed course will complement the existing offerings of the College. The course may not be taken for general education as a part of any program, nor as an elective. The design of the course is clearly to meet the existing need for a remedial algebra course.

   f. Time Frame: First offering would be the Fall Semester of 1982.

3. Details:

   a. Adequacy of Resources: Adequate staff and resource materials exist. No additional faculty, space of resources are currently needed.

   b. Uniqueness and characteristics of the course: This course is unique at Glassboro State in that there is not presently a recognized remedial algebra course. Most of the topics however, parallel those of Math I. Extensive tutoring resources will be available for this course.

   c. Objectives of the Course: At the conclusion of the course, a student will be able to:

      - factor algebraic expressions
      - evaluate numerical expressions
      - solve linear and quadratic equations
      - graph linear equations
      - factor and multiply binomial expressions
      - manipulate complex algebraic fractions
      - evaluate and manipulate radical expressions
      - solve simple word problems

Sums and Differences of Fractions

Complex Fractions

Fractional Equations

Ratio and Proportion

f. First-Degree Equations in Two Variables

Solutions of Equations in Two Variables

Graphs of Ordered Pairs

Intercept Method of Graphing

Slope of a Line

Graphical Solution of Systems of Linear Equations

g. Quadratic Equations

Solution of Equations in Factored Form

Solution of Quadratic Equations by Factoring

Solution of Quadratic Equations by Formula

h. Radical Expressions

Radicals and Irrational Numbers

Fractions Involving Radical Expressions

5. Rationale:

In order to serve Glassboro State's students better, the Mathematics and Computer Science Department has been working for the past 15 months on revamping its remedial and elementary math courses. Most of the changes were passed by the Faculty Senate in November 1981 and they will be implemented for the fall 1982 semester.

Due to changes in Developmental Education at the State level and the fact that the Department of Mathematics will no longer offer Math I for graduation credit after 1984, the course pro-