

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREAS BIOLOGICAL AND PHYSICAL SCIENCES, MATH AND COMPUTER SCIENCE

- 1. Catalog Description of the Course.** *[Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]*

MATH 094. INTRODUCTION TO ALGEBRA (5)

Four hours of lecture and one hour of lab activities per week.

A review of fundamental concepts of arithmetic, geometry and elementary algebra.

Students who earn Credit in this course and in MATH 095 satisfy the Entry Level Mathematics (ELM) requirement.

This course is offered Credit/No Credit only. Credit will not apply toward the baccalaureate degree but will apply as 5 units of University Credit.

- 2. Mode of Instruction.**

	Units	Hours per Unit	Benchmark Enrollment
Lecture	<u>4</u>	<u>1</u>	<u>24</u>
Seminar	<u> </u>	<u> </u>	<u> </u>
Laboratory	<u> </u>	<u> </u>	<u> </u>
Activity	<u>1</u>	<u>1</u>	<u>24</u>

- 3. Justification and Learning Objectives for the Course.** (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) *[Use as much space as necessary]*

The course is offered as a developmental course for students who do not meet the ELM requirement.

Through this course, students will be able to

- Improve basic skills in arithmetic
- Improve their algebraic and geometric skills
- Apply algebraic thinking to problem solving
- Apply algebraic thinking to geometry
- Organize and express ideas clearly and convincingly in oral and written forms.

This course is not designed to satisfy the University Writing or Language requirements.

- 4. Is this a General Education Course** **YES** **NO**

If Yes, indicate GE category:

A (English Language, Communication, Critical Thinking)	
B (Mathematics & Sciences)	
C (Fine Arts, Literature, Languages & Cultures)	
D (Social Perspectives)	
E (Human Psychological and Physiological Perspectives)	

- 5. Course Content in Outline Form.** *[Be as brief as possible, but use as much space as necessary]*

Real numbers and operations

Ratio, proportions and percent

Geometry and measurements

Algebraic Expressions

Equations, Inequalities, and Problem Solving

Introduction to Graphing and Modern Graphic tools
Polynomials and Factoring
Rational Expressions
Systems of Equations and Problem Solving
Inequalities and Problem Solving
Exponents and Radicals
Quadratic Functions and Equations
Problem Solving

6. References. *[Provide 3 - 5 references on which this course is based and/or support it.]*

Bittinger/Ellenbogen/Johnson *Elementary and Intermediate Algebra, Concepts and Applications*, Second Edition
Copyright (c)1997 Addison Wesley Longman

7. List Faculty Qualified to Teach This Course.

All math faculty

8. Frequency.

a. Projected semesters to be offered: Fall ☐X___ Spring ☒X___ Summer ☐X___

9. New Resources Required.

a. Computer (data processing), audio visual, broadcasting needs, other equipment

Use of a computer lab.

b. Library needs

none

c. Facility/space needs

none

10. Consultation.

Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

Proposer of Course

Date