

# General Mathematics Studies

In the College of Arts and Letters

OFFICE: Nasatir Hall 227A  
TELEPHONE: (619) 594-2225  
FAX: (619) 594-6530

## Faculty

Chair: McClish

Lecturers: Capacia, Fulcomer, Morgan, Quan

Adjunct: Keeseey

## Offered by the Department of Rhetoric and Writing Studies

Courses in general mathematics studies.

Major or minor work in general mathematics studies is not offered.

## General Information

The principal role of the General Mathematics Studies program is to prepare students to satisfy the CSU Entry Level Mathematics requirement and to prepare students to succeed in their GE entry level Mathematics course. Receiving a credit in General Mathematics Studies 91 or 99C satisfies the ELM requirement\* as well as the Mathematics Placement Examination, Part IA (intermediate algebra) requirement – a prerequisite for students wishing to enroll in most entry level mathematics and statistics courses. For more information on these mathematics requirements, refer to the “Graduation Requirements” section of this catalog.

The General Mathematics Studies program offers one unit workshops in geometry and other selected topics in mathematics.

**The units awarded to a student who earns a grade of “Credit” in a General Mathematics Studies course are not applicable to the baccalaureate degree.**

\* The ELM requirement is satisfied by these courses *only if* the student has already attempted and failed the ELM.

## Courses (GMS)

### LOWER DIVISION COURSES (Non-Baccalaureate Credit)

General mathematics studies courses numbered below 100 may not be used to satisfy general education or graduation requirements.

#### 90A. Fundamentals of Mathematics (3) Cr/NC/RP I, II, S

Prerequisite: Appropriate score on the CSU Entry-Level Mathematics Examination (ELM), the General Mathematics Studies diagnostic test, or other standardized mathematics examination.

Review of arithmetic and elementary algebra; topics from geometry covered in adjunct workshops (General Mathematics Studies 98A). Students earning “Cr” (credit) should enroll in General Mathematics Studies 91. Students earning “RP” (report in progress) go to specially designated sections of General Mathematics Studies 91. Students earning “NC” (no credit) should repeat General Mathematics Studies 90A. May be repeated with consent of instructor. Maximum credit six units. (Formerly numbered Academic Skills 90A.)

#### \*90B. Basic Algebra Review (3) Cr/NC I, II, S

Prerequisite: Appropriate score on the General Mathematics Studies diagnostic test or other standardized mathematics examination or participation in specified programs.

Course provides an overview of arithmetic (prealgebra), beginning algebra (linear equations and graphing, rational and radical expressions, polynomials), plane geometry (parallelism and perpendicularity, right triangles, similarity and congruence, perimeters, areas,

volumes), and selected topics from intermediate algebra (quadratic equations, conic sections, exponential and logarithmic functions). (Formerly numbered Academic Skills 90B.)

#### \*\*91. Intermediate Algebra (3) Cr/NC I, II, S

Prerequisites: Credit in General Mathematics Studies 90A, 90B or 99A, 99B or appropriate score on the ELM.

A review of intermediate algebra skills. Topics include polynomials, rational and radical expressions, complex numbers, linear and quadratic equations (and graphs), systems of equations, set and function notation, conic sections, exponential and logarithmic functions, and sequences and series. Credit in General Mathematics Studies 91 satisfies the Mathematics Placement Examination, Part IA and Entry Level Mathematics Examination requirements.

#### 98. Mini-Course: Selected Topics (1) Cr/NC

Assorted short courses which will cover a variety of general mathematics skills through intensive lectures and laboratory work.

Suggested topics: Communication skills, research tools, and learning skills. See Class Schedule for specific content. Credit earned in courses from this series is not applicable to a bachelor's degree.

A. Learning Skills

B. Communication Skills

#### 99A. Fundamentals of Mathematics (Integrated Curriculum) (4) Cr/NC/RP I, II

Three lectures and one hour of activity.

Prerequisite: Appropriate score on the CSU Entry-Level Mathematics Examination (ELM), the General Mathematics Studies diagnostic test, or other standardized mathematics examination and freshman class standing.

Review of arithmetic and elementary algebra; topics from geometry covered in adjunct workshops (General Mathematics Studies 98A). Students attend mandatory weekly reinforcement workshops one hour each week in mathematics laboratory. Students earning credit in General Mathematics Studies 99A enroll in General Mathematics Studies 99C the next semester, students earning an “RP” (report in progress) enroll in General Mathematics Studies 99C or specially designated sections of General Mathematics Studies 91, and students earning “NC” (no credit) enroll in General Mathematics Studies 90A or 99A in their next semester.

#### \*99B. Fundamentals of Mathematics (Integrated Curriculum) (4) Cr/NC I, II

Three lectures and one hour of activity.

Prerequisites: Freshman class standing and participation in specified special program.

Topics covered include elementary algebra with review of arithmetic and topics from geometry and intermediate algebra. Class sessions augmented by one hour of reinforcement laboratory work each week. Prepares students for CSU Entry Level Mathematics Examination (ELM), but does not satisfy ELM requirement.

\* General Mathematics Studies 90B and 99B is not offered at the Imperial Valley Campus. Students who do not attain a Cr in General Mathematics Studies 90A at the Imperial Valley Campus should repeat General Mathematics Studies 90A.

\*\* The ELM requirement is satisfied by this course *only if* the student has already attempted and failed the ELM.

**\*\*99C. Intermediate Algebra (Integrated Curriculum) (4) Cr/NC**

Three lectures and one hour of activity.

Prerequisite: Grade of "Cr" (credit) in General Mathematics Studies 99A or 99B or appropriate score on ELM or General Mathematics Studies diagnostic test and freshman class standing.

For freshmen who have attained "Cr" (credit) in General Mathematics Studies 99A or 99B or whose ELM or diagnostic score indicates that this is the appropriate level for them, but who have not yet satisfied the CSU-Entry Level Mathematics Examination (ELM) requirement. Course content is identical to General Mathematics Studies 91, but General Mathematics Studies 99C class sessions will be augmented by one mandatory hour of reinforcement laboratory work each week. A "credit" in General Mathematics Studies 99C satisfies ELM and SDSU Mathematics Placement Examination, Part IA.

\*\*The ELM requirement is satisfied by this course *only if* the student has already attempted and failed the ELM.

**NOTE:**

General Mathematics Studies 90A is equivalent to General Mathematics Studies 99A.

General Mathematics Studies 90B is equivalent to General Mathematics Studies 99B.

Enrollment in General Mathematics Studies 99A, 99B and 99C is restricted to students participating in the Integrated Curriculum program.

