

PROPOSAL TO OFFER A MINOR

Proposed Name of Minor: Foundational Mathematics

Faculty Proposing Minor: Ivona Grzegorzcyk

Review and Approval:1. Curriculum Committee Approval:

Curriculum Chair: _____ Date: _____

2. Academic Senate Approval:

Chair, Academic Senate: _____ Date: _____

3. Administration Approval:

President or designee: _____ Date: _____

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1. Catalog Description:
(please follow accepted catalog format)

The minor provides students who do not major in Mathematics with learning opportunities in elementary mathematics and related application. The minor meets the CCTC criteria for mathematics subject matter for middle school teachers.

2. Justification for Proposed Minor (< 100 words):

This minor meets the needs of non-mathematics majors intending to enter a middle school mathematics teaching credential program. Especially, many Liberal Studies students would like to teach upper level elementary mathematics.

3. Total Number of Units in the Minor (including pre-/ co-requisites):¹
34-36

4. Lower-Division Requirements (including pre-/ co-requisites):^{1,2}
Lower Division 15-16

MATH 101, 105 or MATH 150
MATH 230 Logic (GE - critical thinking)
MATH 208 Math for Elementary Teachers I (included in LS)
MATH 201 or 202 Statistics
MATH 240 Linear Algebra

5. Upper-Division Requirements (including pre-/ co-requisites):^{1,2}
Upper division 16

MATH 308 Math for Elementary Teachers II (included in LS)
MATH 318 Math for Secondary Teachers (Modern geometries)
MATH 330 Math and Fine Arts (GE)
MATH 331 History of Math (GE)
MATH 492 Internship (required for teaching) or LS 499 Capstone in Foundational Math
MATH 499 Senior seminar

ELECTIVES Choose one course from the list below (3-4)

Abstract Algebra
Number Theory
Discrete Mathematics
Calculus I and II
or other upper division math course

6. Additional Facilities needed to offer the Minor:

none

Notes:

- ¹ All courses required for the minor must be listed. For example, the Chemistry minor requires 20 units of Chemistry courses, but several of the courses have the requirement of two semesters of Calculus (Calculus I and II). The lower-division requirements for the Chemistry minor must include these additional math courses.
- ² The Academic Senate at CSUCI has approved that all minors must have a minimum of 15 units, 9 of which must be upper-division.