Mathematics Education

Bachelor of Arts degree  
with a major in Mathematics —  
education option leading to a single  
subject teaching credential

Department Chair  
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Department of Mathematics  
Behavioral & Social Sciences 320  
707-826-3143  
www.humboldt.edu/math

The Program  
This program prepares students primarily for teaching math in junior high school and  
high school. (For information on preliminary and professional clear teaching credentials,  
see Education.)

Courses in calculus, computer programming, number theory, geometry, statistics, and  
history of mathematics comprise the program’s core. Humboldt State offers several  
computer laboratories with a variety of computers, including mainframe, mini, and  
microcomputers.

An active Math Club meets weekly and sponsors various activities and talks. A  
special scholarship fund for outstanding mathematics students was established by  
professor emeritus Harry S. Kieval.

Preparation  
Take mathematics each year in high school. Creative writing, reading, art, and computer  
programming are also helpful.

REQUIREMENTS  
For a description of degree requirements to be fulfilled in addition to those listed below  
for the major, please see “The Bachelor’s Degree” section of the catalog, pp. 58-74.

Please note: Degree requirements listed here do not include professional education  
courses required for the credential.

Students earning this degree may waive  
CSET assessments before entering the  
credential program. Before applying to the  
secondary education credential program,  
students must meet the prerequisite of 45  
hours early field experience or enroll in SED  
210/SED 410.

Lower Division  
CS 111    (4) Computer Science  
Foundations I  
or an approved course in computer  
programming

MATH 109    (4) Calculus I  
MATH 110    (4) Calculus II  
MATH 210    (4) Calculus III  
MATH 240    (3) Introduction to  
Mathematical Thought

MATH 241    (3) Elements of Linear Algebra

Upper Division  
MATH 340    (3) Number Theory  
MATH 343    (4) Introduction to Algebraic  
Structures

MATH 370    (3) School Mathematics from  
Advanced Viewpoint I

MATH 371    (3) Geometry  
MATH 470    (3) School Mathematics from  
an Advanced Viewpoint II

STAT 323    (4) Probability & Statistics

MATH 301    (3) Mathematics & Culture:  
Historical Perspective*, or  
MATH 401    (3) History of Mathematics I

Students also should take:  
\[ \text{sufficient units in approved upper} \]
\[ \text{division mathematics courses to bring} \]
\[ \text{the total to 26 — recommended:} \]

MATH 316    (4) Real Analysis I  
MATH 474    (3) Graph Theory  
MATH 4B1    (1) Workshop in Tutoring  
Mathematics

\[ \text{an approved, coherent program of not} \]
\[ \text{less than eight units in a field of study in} \]
\[ \text{which mathematics is applicable (see} \]
\[ \text{advisor)\} \]

\[ \text{strongly recommended:} \]

PHIL 100    (3) Logic  
ART 105B    (3) Beginning Drawing

* MATH 301 does not count toward 26  
units of 300-level (or above) courses.