

MATHEMATICS (BA/BS)

Chairperson: Yousef Daneshbod

Regular Faculty: Gail Tang, Frank Ives, Xiaoyan Liu, Rick Simon

Adjunct Faculty: Amit Mishal

Emeritus Faculty: Michael Frantz

The Mathematics program offers students preparation for graduate study, careers in teaching, scientific computing, and technology-related industry. While offering a basic grounding in the classical areas of mathematics, the curriculum also emphasizes applied mathematics and its constantly evolving role in analyzing and solving problems in fields ranging from economics to aerodynamics to the environment.

Degree Requirements

B.A. 58 semester hours

B.S. 62 semester hours

Core Requirements for B.A. and B.S.

24 semester hours

Code	Title	Semester Hours
MATH 201	Calculus I	4
MATH 202	Calculus II	4
MATH 305	Transition to Advanced Mathematics	4
MATH 311	Calculus III	4
MATH 320	Linear Algebra	4
MATH 499A	Math Senior Seminar A	2
MATH 499B	Math Senior Seminar B	2
Total Semester Hours		24

Additional Core Requirements for B.A.

8 semester hours

Code	Title	Semester Hours
MATH 319	Vector Calculus	4
or MATH 328	Abstract Algebra	
MATH 325	Number Theory	4
or MATH 351	Probability	
Total Semester Hours		8

Additional Core Requirements for B.S.

12 semester hours

Code	Title	Semester Hours
MATH 315	Differential Equations	4
MATH 328	Abstract Algebra	4
MATH 410	Real Analysis	4
Total Semester Hours		12

Prerequisite Requirements for B.A. and B.S.

14 semester hours

Code	Title	Semester Hours
CMPS 367	Object Oriented Language C++	4
PHYS 203	Physics I: Mechanics	5
PHYS 204	Physics II: Electricity & Magnetism	5
Total Semester Hours		14

Electives for B.A. and B.S.

A minimum of 12 semester hours in upper division mathematics courses.

Note: All Mathematics courses being transferred in to fulfill requirements for the Mathematics major must be approved by the Mathematics Program Chair. All courses from community colleges are, by definition, lower-division and are rarely approved as equivalent to upper division courses taught at La Verne.