

MATHEMATICS (BA/BS)

Chairperson: Yousef Daneshbod

Regular Faculty: Gail Tang, Frank Ives, Casey Griffin

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. 67 semester hours

B.S. 71 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 315	Differential Equations	4
MATH 328	Abstract Algebra	4
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.

19 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
PHYS 360	Modern Physics	5
Total Semester Hours		19

Electives for B.A. and B.S.

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

Note: All Mathematics courses being transferred 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.

Physics Concentration

12 semester hours

Code	Title	Semester Hours
Three upper division PHYS courses		12
Total Semester Hours		12

Concentration in Teaching, Single Subject

A Master of Arts in Teaching Pathway

The University of La Verne offers an undergraduate-to-master's in teaching pathways, which includes single subject credentialing. These pathways are restricted to Majors that have this listed concentration. Students with this concentration complete their subject matter competency requirement by degree and 16 upper division semester hours of Teacher Credential course work, that apply to both undergraduate and graduate degrees.

This is a direct education pathway to completing a specialized Master of Arts in Teaching, MAT, at the University of La Verne which includes a Single Subject Teaching Credential. The 4+1 programs have been designed for completion in 5 years. Any deviation from the outlined education plan, including extensions, may have financial aid implications and should be considered with the support of an advisor. An application for consideration of this education pathway is mandatory.

Upper division coursework is not modified for these integrated programs, students will be following the MAT course sequence created for all credential candidates in the LaFetra College of Education teaching programs. This includes prerequisites for course enrollment and completion of state mandated assessments in the required time sequence.

Program Requirements for Concentration

- Minimum 2.75 GPA to begin
- Must maintain a minimum 3.0 GPA in the program in accordance with the University's Graduate GPA requirements
- Face-to-face interview with the MAT program chair or designee
- Meet with Education Advisor at least one time per semester to monitor progress according to requirements
- Must meet credential prerequisites prior to registering for the first credential class

2 Mathematics (BA/BS)

- Prerequisites
 - TB Clearance *California Education Code Section 49406*
 - Live Scan/Fingerprint Clearance *California Education Code Section 44320(b)*
 - Certificate of Clearance (CoC) *California Education Code Section 44320(b)*

Concentration in Teaching, Single Subject Requirements

16 semester hours

Code	Title	Semester Hours
EDUC 427	Language and Literacy, Single Subject	4
EDUC 428	Introductory Teaching Practices, Single Subject	4
EDUC 442	Intermediate Teaching Practices, Single Subject	4
EDUC 443	Advanced Teaching Practices, Single Subject	4
Total Semester Hours		16