



## Sample Schedule

### Year 1

Fall Quarter: MAT 21A

Winter Quarter: MAT 21B, ENG 6

Spring Quarter: MAT 21C, 2-Quarter Sequence

### Year 2

Fall Quarter: MAT 21D, 2-Quarter Sequence

Winter Quarter: MAT 22A, MAT 108

Spring Quarter: MAT 22B, MAT 127A

### Year 3

Fall Quarter: MAT 127B, ECS 32A

Winter Quarter: MAT 127C, MAT 119A

Spring Quarter: 2 Enrichment Classes, 1 Upper  
Division non-math class

### Year 4

Fall Quarter: MAT 150A, MAT 128A

Winter Quarter: MAT 185A, MAT 135A

Spring Quarter: MAT 128C, Capstone

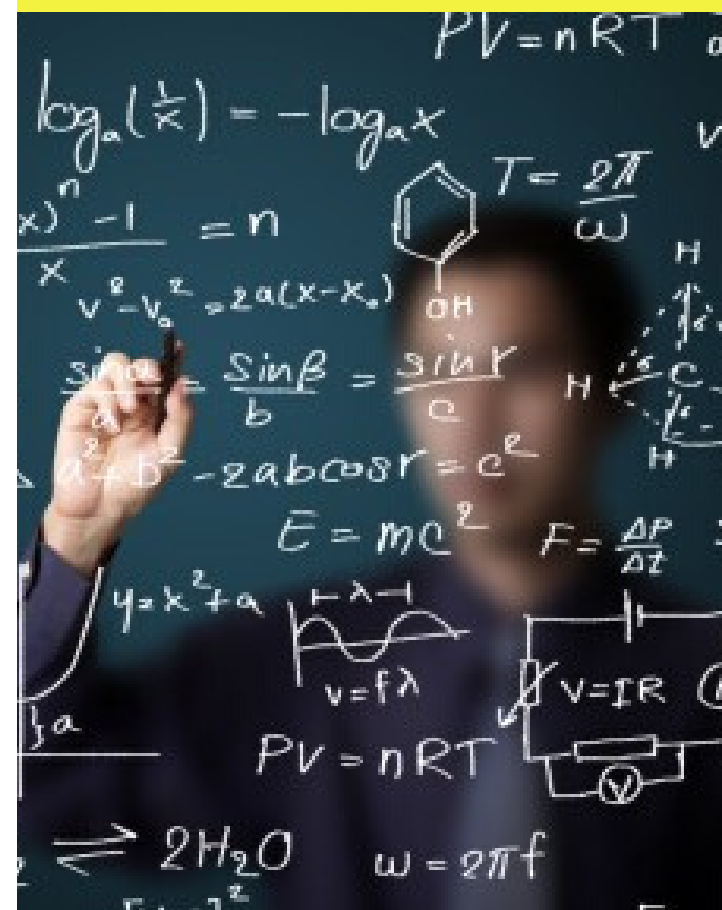
## Interested?

Talk with the Math Undergraduate Advisor, Cydney Matteson, about switching to the Applied Mathematics major. Set up your appointment at [appointments.ucdavis.edu](http://appointments.ucdavis.edu).

# UC DAVIS

## MATHEMATICS

## APPLIED MATHEMATICS



## WHAT IS APPLIED MATHEMATICS?

Applied mathematics students learn how to use mathematics to answer questions that are integral to the advancement of knowledge in any of these scientific fields. As any scientific field develops, such as engineering, physics, economics, biology or statistics, more sophisticated mathematical models are needed to formulate and solve basic problems. Students then focus their studies on how math relates to topics in a specific science of their choice.

## PROGRAM OVERVIEW

If you are a first-year in the applied mathematics major, you will begin your study with basic preparatory mathematics courses such as calculus (if not completed in high school), linear algebra, as well as computer science and physical science, economics or statistics courses. The applied mathematics major requires upper division coursework of your choosing outside of the department such as chemistry, physics, economics, geology, electrical and computer engineering, and much more. For Transfer Students: all lower-division requirements (equivalent to the first two years of courses) must be completed prior to transferring.

## WHY STUDY APPLIED MATHEMATICS AT UC DAVIS?

If you are a first-year in the applied mathematics major, you will begin your study with basic preparatory mathematics courses such as calculus (if not completed in high school), linear algebra, as well as computer science and physical science, economics or statistics courses. The applied mathematics major requires upper division coursework of your choosing outside of the department such as chemistry, physics, economics, geology, electrical and computer engineering, and much more. For Transfer Students: all lower-division requirements (equivalent to the first two years of courses) must be completed prior to transferring.

## HOW DOES THIS MAJOR DIFFER FROM OUR OTHER MATH MAJORS?

The applied mathematics major has an emphasis on computer science and the sciences. Additionally, a quarter of Ordinary Differential Equations and two quarters of Numerical Analysis are required. Upper division coursework outside of the department are required in the scientific area of your choice.

## POSSIBLE CAREER PATHS

**Postgraduate Work:** Our graduates have gone on to prestigious graduate programs at universities such as Wharton School, Harvard, MIT, Stanford, Princeton, and many graduate degree programs at UC Davis. Students who continue on to graduate school to pursue a range of fields of study, such as bioinformatics, communication, economics, law, medicine, and statistics.

**Industry:** Some of our graduates have received jobs ranging from technology and social media companies (Google, Amazon, Facebook); Data Analytics firms (Acumen, Accenture); teaching (Teach for America, secondary teaching); actuarial companies (Liberty Mutual, Allstate Insurance)