

MATHEMATICS DEGREE REQUIREMENTS

**• Core Requirements for
All Mathematics •**

A. Math 2A ___ 2B ___ 2D/H2D ___
3A/H3A ___ 3D ___ 13 ___

B. Math 9 ___

C. One of the following sequences:

- Chem 1A ___ B ___ C ___; or
- Physics 7C ___ D ___ E ___; or
- Physics 7C ___ Stats 7 ___ Math 10 ___

Upper-div: Math 120A ___ 121A ___
130A ___ 140A ___ 140B ___

**• No specialization/concentration
(Pure Mathematics) •**

*Core requirements for all Mathematics
Majors plus:*

Math 2E/H2E ___
Math 120B ___ 121B ___ 147 ___
*Five additional 4-unit math courses
(100-189):*

**For ALL Specializations/Concentrations
(EXCEPT CalTeach)**

An application should be completed at least 3 quarters prior to graduation. **Admission into a concentration or specialization is not guaranteed.** The department may limit the number of students admitted into this concentration during impacted years.

<http://www.math.uci.edu/undergraduate-studies/concentrations-and-specializations>

• Concentration in Mathematical Finance •

*Core requirements for all Mathematics
Majors plus:*

Replace Item C in the Core Requirements with the following:

Physics 7C ___ Stats 7 ___ Math 10 ___

A. All of the following:

Math 2E/H2E ___ 120B ___ 121B ___
130B ___ 130C ___ 134A ___ 134B ___
134C ___ 147 ___

B. One elective courses from:

Math 105A/LA ___ 105B/LB ___ 110A ___
173A ___ 176 ___
CompSci 171 ___ 172B ___ 177 ___ 178 ___

C. Eight required economics courses:

Econ 20A ___ 20B ___
Econ 105A ___ 105B ___ 105C ___
Econ 122A ___ OR 123A ___
Econ 132A ___
Econ 134A ___ OR 161A ___

• Concentration in Data Science •

*Core requirements for all Mathematics
Majors plus:*

Math 2E/H2E ___

Replace Item C in the Core Requirements with the following:

Physics 7C ___ Stats 7 ___ Math 10 ___

A. All of the following:

Math 105A ___ 105B ___ 120B ___ 121B ___
130B ___ 147 ___ 110A ___ 110B ___

B. Three elective courses from¹:

Stats 110 ___
I&C Sci 105 ___
Math 115 ___ 117 ___ 118 ___ 130C ___
133A ___ & 133B ___ OR 134A ___ &
134B ___
140C ___ 162A ___ 162B ___ 173A ___
173B ___ 175 ___ 176 ___
CompSci 171 ___ 172B ___ 177 ___
178 ___ 179 ___ 183 ___ 184A ___ 184C ___

• Specialization in Mathematical Biology •

*Core requirements for all Mathematics
Majors plus:*

Math 2E/H2E ___

Replace Item C in the Core Requirements with the following:

- Bio Sci 93 ___ 94 ___ AND
- Two courses selected from:
Chem 1A ___ 1B ___
Bio Sci 97 ___
Physics 2 ___ 7C ___ 7D ___

A. All of the following:

Math 105A/LA ___ 105B/LB ___
112A ___ 112B ___ 113A ___ 113B ___
115 ___

B. Two elective courses (at least one from Math (100-189). The second may be either upper-division Math or a 4-unit upper-division Biological Sciences course with advanced approval from the advisor for this specialization.

Elec. #1. ___ Elec. #2. ___

• Specialization in Math for Education •

*Core requirements for all Mathematics
Majors plus:*

Math 8 ___
Math 105A/LA ___ 120B ___
130B ___ 150 ___ 161 ___
180A ___ 184 ___ 184L ___ AND

One additional math course numbered 100-189: ___

Physical Sciences 5 ___ 105 ___

**• Specialization in Applied and
Computational Mathematics •**

*Core requirements for all Mathematics
Majors plus:*

Math 2E/H2E ___

A. All of the following:

Math 105A/LA ___ 105B/LB ___
112A ___ 112B ___ 115 ___ 121B ___

B. Three elective courses from:

Math 107/107L ___ 110A ___ 110B ___
112C ___ 117 ___ 118 ___ 130B ___ 130C ___
134A ___ & 134B ___ 140C ___ 176 ___

Two approved upper-division courses in an area of application outside of Mathematics. Approval must be obtained in advance from the advisor for this specialization. The student is responsible for satisfying any prerequisites for these courses.

Elec. #1. ___ Elec. #2. ___

**• Concentration in Mathematics for
Education/Secondary Teaching
Certification •**

Admission requires approval in advance. The admission process begins with completing an Intent form at the CalTeach Resource and Advising Center.

*Core requirements for all Mathematics
Majors plus:*

Math 8 ___

A. All of the following:

Math 105A/LA ___ 120B ___
130B ___ 150 ___ 161 ___ 180A ___
184 ___ 184L ___ AND

One additional math course numbered 100-189: ___

B. All of the following:

Phy Sci 5 ___ 105 ___

Chem/Physics 193 ___

Educ 55 ___ 109 ___ 143AW ___ 143BW ___
148 ___ AND
two quarters of Educ 158 ___

This **concentration** allows students to earn a bachelor's degree and complete the required coursework and field experience for a California Preliminary Single Subject Teaching Credential at the same time.

NOTE: Students may pursue either the concentration in Mathematics for Education/Secondary Teaching Certification **OR** the specialization in Mathematics for Education, but not both.

**UCI SCHOOL OF PHYSICAL SCIENCES
UNIVERSITY / GENERAL EDUCATION REQUIREMENTS**

NAME _____ **STUDENT ID** _____

Other Colleges _____

UNIVERSITY REQUIREMENTS:

English (UC ELW) _____ American History _____ Institutions _____

RESIDENCY REQUIREMENTS:

36 of the final 45 units must be completed at UCI _____

UNIT REQUIREMENT: 180 units are required for graduation _____

GPA REQUIREMENT AND STANDING:

Overall GPA of 2.0 _____ GPA in major at least a 2.0 _____

GPA in upper-division major classes at least a 2.0 _____

TRANSFER STUDENTS:

Partial IGETC _____

Full IGETC _____

cert received? yes _____ no _____

General Education (GE) Requirements	Fall	Winter	Spring
I. Writing (2 lower-division, 1 upper-division) <input type="checkbox"/>	Freshman		
1.	Math 2A	Math 2B	Math 2D
2.	GEN ED/Elective	Phys 7C, 7LC	Phys 7D, 7LD
3.	GEN ED/Elective	Math 13	GEN ED/Elective
	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
II. Science & Technology (any 3) <input type="checkbox"/>	Sophomore		
1.	Math 2E	Math 3A	Math 3D
2.	Phys 7E	Math 9	GEN ED/Elective
3.	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
III. Social & Behavioral Sciences (any 3) <input type="checkbox"/>	Junior		
1.	Math 130A	Math 140A	Math 140B
2.	Math 120A	Math 120B	Math 141
3.	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
IV. Arts & Humanities (any 3) <input type="checkbox"/>	Senior		
1.	Math 121A	Math 121B	Math 115
2.	Math 150	Math 147	GEN ED/Elective
3.	Math 112A	Math 180A	GEN ED/Elective
	GEN ED/Elective	GEN ED/Elective	GEN ED/Elective
V. Quantitative, Symbolic and Computational Reasoning <input type="checkbox"/>	(sample program, your schedule may differ greatly)		
Va.			
Vb.			
Va or Vb.			
VI. Language Other than English <input type="checkbox"/>	Mathematics Department: http://www.math.uci.edu/		
1C or equivalent	For enrollment questions: http://www.math.uci.edu/undergraduate		
	Mathematics tutoring: http://www.math.uci.edu/undergrad-courses/tutoring-assistance		
VII. Multicultural Studies (one course) <input type="checkbox"/>	How to find research: http://ps.uci.edu/stuaff/content/research		
	Course offerings: http://www.math.uci.edu/undergrad-courses/plan-math-course-offerings		
VIII. International/Global Issues (one course) <input type="checkbox"/>			