### Core Requirements for All Mathematics

- **A.** Math 2A, 2B, 2D/H2D, 3A, 3D, 13
- **B.** Math 9

#### C. One of the following sequences:
- Chem 1A, B, C, or
- Physics 7C, D, E

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

### Concentration in Data Science

Core requirements for all Mathematics Majors plus:
- Math 2E/H2E

**Replace Item C in the Core Requirements with the following:**
- Math 10
- Stats 7
- Physics 7C

#### A. All of the following:
- Math 105A, 105B, 121B
- 130B, 110A, 110B

**B. Three elective courses from:**
- Stats 110
- I&C Sci 105
- Math 115, 117, 118, 130C
- 133A, 133B, 140C
- 162A, 162B, 173A, 173B
- 175, 176
- CompSci 171, 172B, 177
- 178, 179, 183
- 184A, 184C

### Specialization in Applied and Computational Mathematics

Core requirements for all Mathematics Majors plus:
- Math 2E/H2E

**A. All of the following:**

**B. Three elective courses from:**
- Math 107/107L, 112C, 117
- 118, 130B, 130C
- 133A, 133B, 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.**

### 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:

#### 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.

### Concentration in Mathematical Finance

Core requirements for all Mathematics Majors plus:
- Math 2E/H2E

**Replace Item C in the Core Requirements with the following:**
- Math 10
- Stats 7
- Physics 7C

#### A. All of the following:
- Math 105A, 105B, 121B
- 130B, 110A, 110B

**B. Three elective courses from:**
- Stats 110
- I&C Sci 105
- Math 115, 117, 118, 130C
- 133A, 133B, 140C
- 162A, 162B, 173A, 173B
- 175, 176
- CompSci 171, 172B, 177
- 178, 179, 183
- 184A, 184C

### Specialization in Mathematics for Education

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. Three elective courses from:**
- Phy Sci 5
- Chem/Physics 193
- Educ 55, 109, 143A, 143B
- 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.

### 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. Three elective courses from:**
- Phy Sci 5
- Chem/Physics 193
- Educ 55, 109, 143A, 143B
- 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.

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**For ALL Specializations/Concentrations EXCEPT CalTeach**

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

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.

Effective Fall 2019