MATHEMATICS DEGREE REQUIREMENTS

• Core Requirements for	• Concentration in Data Science¹ •	• Concentration in Mathematical Finance ¹ •
All Mathematics •	Concentration in Data Science	Concentration in Mathematical Finance
	Core requirements for all Mathematics	Core requirements for all Mathematics
A. Math 2A 2B 2D/H2D 3A 3D 13	Majors plus:	Majors <u>plus</u> :
3A3D13	Math 2E/H2E	A. All of the following:
B. Math 9	Replace Item C in the Core Requirements with	Math 2E/H2E
	the following:	Math 130B133A133B
• Chem 1AB_C; or	Math 10Stats 7Physics 7C	B. <u>Three</u> elective courses from:
• Physics 7C D E	A. <u>All</u> of the following:	Math 105A/LA105B/LB107/L
	Math 105A105B121B 130B110A110B	112A 112B 112C 115 117 118 121B
Upper-div: Math 120A 140B		130C 133C 140C 176
130A140A140B	B. <u>Three</u> elective courses from ² : Stats 110	C. Eight required economics courses:
 No specialization/concentration 	I&C Sci 105	Econ 20A 20B
(Pure Mathematics) •	Math 115117118130C	Econ 105A 105B 105C
Core requirements for all Mathematics	133A133B140C	Econ 122A OR 123A Econ 132A
Majors plus:	162A162B173A173B 175 176	Econ 134A
Math 2E/H2E	CompSci 171172B177	
Math 120B 121B 147	178179183	• Concentration in Mathematics for
<u>Five</u> additional 4-unit math courses (100-189):	184A184C	Education/Secondary Teaching Certification•
(100 105).	 Specialization in Applied and 	Admission requires approval in advance. The
	Computational Mathematics¹ •	admission process begins with completing an
<u> </u>	Core requirements for all Mathematics	Intent form at the CalTeach Resource and Advising Center.
Mathematical Biology •	Majors <u>plus</u> :	navising Center.
Core requirements for all Mathematics	Math 2E/H2E	Core requirements for all Mathematics
Majors <u>plus</u> :	A. <u>All</u> of the following:	Majors <u>plus</u> :
Math 2E/H2E	Math 105A/LA105B/LB	Math 8
Replace Item C in the Core Requirements with	112A112B115121B	A. All of the following:
the following:	B. Three elective courses from:	Math 105A/LA120B
• Bio Sci 9394AND	Math 107/107L112C117 118	130B 150 161 180A 1844 1844 1845
• <u>Two</u> courses selected from: Chem 1A1B	133A133B140C176	184184LAND One additional math course numbered 100-
Bio Sci 97	<u>Two</u> approved upper-division courses in an	<u></u>
Physics 27C7D	area of application outside of Mathematics.	B. All of the following:
A. All of the following:	Approval must be obtained in advance from the	Phy Sci 5 105
Math 105A/LA 105B/LB	advisor for this specialization. The student is responsible for satisfying any prerequisites for	Chem/Physics 193
112A112B113A113B	these courses.	Educ 55 109 143A 143B
113COR 115	Elec. #1. Elec. #2.	148 AND
B. Two elective courses (at least one from		two quarters of Educ 158
Math (100-189). The second may be either	 Specialization in Mathematics for Education¹ 	This concentration allows students to earn a
upper-division Math or a 4-unit upper-division		bachelor's degree and complete the required
Biological Sciences course with advanced approval from the advisor for this	Core requirements for all Mathematics	coursework and field experience for a
specialization.	<i>Majors <u>plus</u>:</i> Math 8	California Preliminary Single Subject Teaching
Elec. #1 Elec. #2	Math 105A/LA 120B	Credential at the same time.
	130B150161	NOTE: Students may pursue either the
	180A184184L AND	concentration in Mathematics for
	One additional math course numbered 100-	Education/Secondary Teaching Certification

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.

Physical Sciences 5____ 105___

OR the specialization in Mathematics for

Education, but not both.

• ²Three elective courses from list provided. At least one of the electives must be from outside the Mathematics department.