

MAJOR REQUIREMENTS		
LOWER-DIVISION REQUIREMENTS		
A. Lower-Division Core*		B. Science Core (any 3 courses)
___ Math 2A	___ Chem 1A	___ Stats 7
___ Math 2B	___ Chem 1B	___ Bio Sci 93/93L
___ Math 2D	___ Chem 1C	___ Bio Sci 94/94L
___ Math 2E	___ Math 10	___ Bio Sci 97
___ Math 3A	___ Physics 7C	
___ Math 3D	___ Physics 7D	
___ Math 9	___ Physics 7E	
___ Math 13		
UPPER-DIVISION REQUIREMENTS		
A. Upper-Division Core*		
___ Math 105A/LA	___ Math 105B/LB	
___ Math 121A	___ Math 121B	___ Math 130A
___ Math 140A	___ Math 140B	
B. Modeling Core*		
___ Math 112A	___ Math 112B	___ Math 115
C. Upper-Division Mathematics Electives (any 3 courses)		
___ Math 107/L	___ Math 110A	___ Math 110B
___ Math 112C	___ Math 113A	___ Math 113B
___ Math 117	___ Math 118	___ Math 120A
___ Math 130B	___ Math 130C	___ Math 134A
___ Math 134B	___ Math 140C	___ Math 147
___ Math 176	___ Math 178	
D. Upper-Division Electives - Outside of Mathematics (Two from list, or obtain approval from Applied Mathematics Faculty Advisor for any not on pre-approved list)		
___ CompSci 122A	___ CompSci 161	___ CompSci 171
___ CompSci 172B	___ CompSci 178	___ CompSci 183
___ Econ 100A	___ Econ 105A	___ Econ 105B
___ Econ 135	___ Mgmt 101	___ Mgmt 105
___ Mgmt 107	___ Philos 104	___ Philos 105A
___ Philos 105B	___ Physics 100	___ Physics 111A
___ Physics 111B	___ Physics 116	___ Physics 125A
___ Physics 125B	___ Stats 110	___ Stats 111
___ Stats 112	___ Stats 120B	

\*All courses must be completed from this section.

Notes:

SPECIALIZATION/CONCENTRATIONS		
<p>An application should be completed at least 3 quarters prior to graduation. <b>Admission into a specialization or concentration is not guaranteed.</b> The department may limit the number of students admitted into specialization/concentrations during impacted years.  <a href="https://www.math.uci.edu/undergraduate-studies/concentrations-and-specializations">https://www.math.uci.edu/undergraduate-studies/concentrations-and-specializations</a></p>		
SPECIALIZATION IN MATHEMATICAL BIOLOGY		
<i>Lower-Division Core (section A) and Upper-Division Core (section A) plus all of the following:</i>		
___ BioSci 93/93L	___ BioSci 94/94L	___ Math 10
___ Math 112A	___ Math 112B	
___ Math 113A	___ Math 113B	___ Math 115
<i>Plus three elective courses (Two from Math 100-189). The third may be either upper-division Math or a 4-unit upper-division BioSci course with advanced approval from faculty advisor.</i>		
Elec. #1	___	Elec. #2 ___ Elec. #3 ___
CONCENTRATION IN DATA SCIENCE		
<i>Lower-Division Core (section A) and Upper-Division Core (section A) plus all of the following:</i>		
___ Physics 7C	___ Stats 7	___ Math 10
___ Math 110A	___ Math 110B	___ Math 130B
<i>Plus five elective courses from the following (one MUST be outside of Math).</i>		
___ Math 115	___ Math 117	___ Math 118
___ Math 120B	___ Math 130C	___ Math 134A
___ Math 134B	___ Math 140C	___ Math 147
___ Math 162A	___ Math 162B	___ Math 173A
___ Math 173B	___ Math 175	___ Math 176
___ Math 178	___ Stats 110	___ Stats 111
___ CompSci 171	___ CompSci 172B	___ CompSci 177
___ CompSci 178	___ CompSci 179	___ CompSci 183
___ CompSci 184A	___ CompSci 184C	
CONCENTRATION IN MATHEMATICAL FINANCE		
<i>Lower-Division Core (section A) and Upper-Division Core (section A) plus all of the following:</i>		
___ Physics 7C	___ Stats 7	___ Math 10
___ Math 130B	___ Math 130C	___ Math 134A
___ Math 134B	___ Math 134C	___ Math 176
___ Econ 20A	___ Econ 20B	
___ Econ 105A	___ Econ 105B	___ Econ 105C
___ Econ 122A	OR Econ 123A	
___ Econ 132A		
___ Econ 134A	OR Econ 161A	

Name \_\_\_\_\_ Student ID \_\_\_\_\_

**UNIVERSITY OF CALIFORNIA (UC) REQUIREMENTS**

\_\_\_\_ Entry Level Writing      \_\_\_\_ American History      \_\_\_\_ American Institutions

UC Requirements can be satisfied many different ways. Please contact Physical Sciences Student Affairs for more information on how to satisfy UC Requirements.

**GENERAL EDUCATION (GE) REQUIREMENTS**

<b>IA. LOWER-DIVISION WRITING (2 courses)</b>
1.
2.
<b>IB. UPPER-DIVISION WRITING (1 course)</b>
1.
<b>II. SCIENCE &amp; TECHNOLOGY (3 courses)</b>
1.
2.
3.
<b>III. SOCIAL &amp; BEHAVIORAL SCIENCES (3 courses)</b>
1.
2.
3.
<b>IV. ARTS &amp; HUMANITIES (3 courses)</b>
1.
2.
3.
<b>V. QUANTITATIVE, SYMBOLIC, COMP. REASONING (3 courses)</b>
VA 1.
VB 2.
VA or VB 3.
<b>VI. LANGUAGE OTHER THAN ENGLISH (1C or equivalent)</b>
1.
<b>VII. MULTICULTURAL STUDIES (1 course)</b>
1.
<b>VIII. INTERNATIONAL/GLOBAL ISSUES (1 course)</b>
1.

**TRANSFER STUDENTS:**  
 \_\_\_\_ Partial IGETC      \_\_\_\_ Full IGETC  
**Cert. Received.** \_\_\_\_ Yes      \_\_\_\_ No

**Physical Sciences Student Affairs**  
<http://ps.uci.edu/undergraduates>

**Mathematics Department**  
<https://www.math.uci.edu/undergraduate>

**School of Physical Sciences**  
<https://ps.uci.edu/>

<b>APPLIED AND COMPUTATIONAL MATH SAMPLE STUDY PLAN</b>		
<b>FALL</b>	<b>WINTER</b>	<b>SPRING</b>
<b>Freshman</b>		
Math 2A	Math 2B	Math 2D
Science Core	Science Core	Science Core
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective
<b>Sophomore</b>		
Math 2E	Math 3A	Math 3D
Math 9	Math 13	Gen Ed/Elective
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective
<b>Junior</b>		
Math 105A-LA	Math 105B-LB	Math 121B
Math 130A	Math 121A	UD Math Elective
Gen Ed/Elective	UD Math Elective	Gen Ed/Elective
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective
<b>Senior</b>		
Math 112A	Math 112B	Math 115
Math 140A	Math 140B	Non-Math Elective
UD Math Elective	Non-Math Elective	Gen Ed/Elective
Gen Ed/Elective	Gen Ed/Elective	Gen Ed/Elective

Reference UCI Catalogue for approved General Education courses:  
<https://catalogue.uci.edu/>