MAJOR REQUIREMENTS

LOWER-DIVISION REQUIREMENTS

A. Lower-Division Core*

____ Math 2A
____ Math 2B
____ Math 2D
____ Math 2E
____ Math 3A
____ Math 3D
____ Math 9
____ Math 13

B. Science Core (any 3 courses)

____ Chem 1A
____ Chem 1B
____ Chem 1C
____ Math 10
____ Physics 7C
____ Physics 7D
____ Physics 7E
____ Stats 7
____ Bio Sci 93/93L
____ Bio Sci 94/94L
____ Bio Sci 97

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

An application should be completed at least 3 quarters prior to graduation. **Admission into a specialization or concentration is not guaranteed.** The department may limit the number of students admitted into specialization/concentrations during impacted years.
https://www.math.uci.edu/undergraduate-studies/concentrations-and-specializations

SPECIALIZATION IN MATHEMATICAL BIOLOGY

Lower-Division Core (section A) and Upper-Division Core (section A) <u>plus all of the following:</u>

____ BioSci 93/93L   ____ BioSci 94/94L   ____ Math 10

____ Math 112A   ____ Math 112B

____ Math 113A   ____ Math 113B   ____ Math 115

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.

Elec. #1 _____   Elec. #2 _____   Elec. #3 _____

CONCENTRATION IN DATA SCIENCE

Lower-Division Core (section A) and Upper-Division Core (section A) <u>plus all of the following:</u>

____ Physics 7C   ____ Stats 7   ____ Math 10

____ Math 110A   ____ Math 110B   ____ Math 130B

Plus five elective courses from the following (one MUST be outside of Math).

____ 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

Lower-Division Core (section A) and Upper-Division Core (section A) <u>plus all of the following:</u>

____ 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_____

_____ 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

IA. LOWER-DIVISION WRITING (2 courses)
1.
2.

IB. UPPER-DIVISION WRITING (1 course)
1.

II. SCIENCE & TECHNOLOGY (3 courses)
1.
2.
3.

III. SOCIAL & BEHAVIORAL SCIENCES (3 courses)
1.
2.
3.

IV. ARTS & HUMANITIES (3 courses)
1.
2.
3.

V. QUANTITATIVE, SYMBOLIC, COMP. REASONING (3 courses)
VA 1.
VB 2.
VA or VB 3.

VI. LANGUAGE OTHER THAN ENGLISH (1C or equivalent)
1.

VII. MULTICULTURAL STUDIES (1 course)
1.

VIII. INTERNATIONAL/GLOBAL ISSUES (1 course)
1.

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

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/

APPLIED AND COMPUTATIONAL MATH SAMPLE STUDY PLAN		
FALL	**WINTER**	**SPRING**
Freshman		
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
Sophomore		
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
Junior		
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
Senior		
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