B.S. APPLIED PHYSICS DEGREE REQUIREMENTS

A. Core Requirements:
Students must complete all courses

☐Math 2A **OR** Math 5A

☐Math 2B ☐Math 2D

☐Math 2E ☐Math 3A

☐Math 3D

☐Physics 7C-7D-7E-7LC-7LD **OR**
Physics 3A-3B-3C-3LB-3LC

***Physics 7 series is <u>strongly</u> recommended for majors.**

☐Physics 50

☐Physics 53 (or approved alternate programming course)

☐Physics 60 **OR** Chem 1C/H2C/M3C **OR**
ENGRMAE 91

☐Physics 61A **OR** Physics 51A

☐Physics 111A ☐Physics 112A

☐Physics 113A ☐Physics 115A

***B.* Lower-Division Lab Requirement:**

☐ *Students must complete 6 units of labs using any combination of the following courses*

Physics 52A (2 units)
Physics 52B (2 units)
Physics 52C (2 units)
Chem 1LC (2 units)
Chem 1LD (2 units)
Chem H/M2LA (3 units)
Chem H/M2LB (3 units)
Chem 51LB (2 units)
Chem 51LC (2 units)
Chem H/M52LA (3 units)
Chem H/M52LB (3 units)
ENGR 7A (2 units)
ENGR 7B (2 units)
EECS 70LA (1 units)
EECS 70LB (1 units)

_____ /6 units completed

C. Upper-Division Lab Requirement:

☐ *Students must complete 8 units of upper-division lab courses, 4 units must be in Physics selecting from the following courses*

Physics 106W (4 units)
Physics 120 (4 units)
Physics 121W (4 units)
Physics 139 (4 units)
Physics 193 (4 units)
Physics 196C (4 units)
EECS 170LA (1 unit)
ENGRMAE 150L (1 unit)
Other approved upper-division labs outside of Physics Department

_____ /8 units completed

D. Writing Communication Requirement:

☐ *Students must complete one writing communication course selected from the following*

Physics 194
Phy Sci 139W
Educ 143BW
One approved upper-division writing course with departmental approval

E. Elective Requirement:

The major requires 32 additional units of coherently related elective courses chosen from PHYS 100-150 and/or 200-299 with approval from the Department Undergraduate Advisor. Up to 8 units may be lower-division electives in Physics such as Physics 20, 61B, or H90.

_____ _____

_____ _____

_____ _____

_____ _____

Optional Concentration in Engineering Physics
For students in the Engineering Physics Concentration, at least 24 of the 32 elective units must come from courses in the Henry Samueli School of Engineering. Pre-approved courses include:

EECS 70A (4 units)
EECS 70B-70LB (4/1 units)
EECS 170A-LA (4/1 units)
EECS 170B-LB (4/1 units)
EECS 170C-LC (4/1 units)
EECS 174 (4 units)
EECS 188 (4 units)
ENGMAE 120 (4 units)
ENGMAE 130A (4 units)
ENGMAE 147 (4 units)

#_____ Engineering units completed

The remaining 8 units may be lower-division or upper-division Physics courses, upper-division Math courses, or Engineering courses; plan requires pre-approval by the Department Undergraduate Advisor.

Optional Concentration in Biomedical Physics
For students in the Biomedical Physics Concentration, the coherently related elective requirement is completed by the following courses:

☐Bio Sci 97 ☐Bio Sci 98 ☐Bio Sci 99

☐Chem 1A-1B-1C-1LC-1LD **OR**
Chem H2A-H2B-H2C-H2LA-H2LB **OR**
Chem M2A-M2B-M3C-M2LA-M2LB

☐Chem 51A-51B **OR** Chem H/M52A-H/M52B

****Requirements in sections A/B/C/D/E may not double-count. Courses can only be applied toward one section.***

Effective Fall 2022

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
I. Writing (2 lower-division, 1 upper-division) ☐
1.
2.
3.
II. Science & Technology (any 3) ☐
1.
2.
3.
III. Social & Behavioral Sciences (any 3) ☐
1.
2.
3.
IV. Arts & Humanities (any 3) ☐
1.
2.
3.
V. Quantitative, Symbolic and Computational Reasoning ☐
Va.
Vb.
Va *or* Vb.
VI. Language Other than English ☐ 1C or equivalent
VII. Multicultural Studies (one course) ☐
VIII. International/Global Issues (one course) ☐

Fall	Winter	Spring
Freshman		
Math 2B	Math 2D	Math 2E
Physics 7C, 7LC	Physics 7D, 7LD	Physics 7E
Physics 99	GEN ED	GEN ED
Writing/GEN ED		
Sophomore		
Math 3A	Math 3D	Physics 53
Physics 52A	Physics 61A	Physics 52C
GEN ED	Physics 52B	Physics 60
Junior		
Physics 50	Physics 112A	Physics 113A
Physics 111A	Elective/GEN ED	Elective/GEN ED
Elective/GEN ED	Elective	Elective
Senior		
Physics 115A	Physics 121W	Physics 106
Physics 194	Elective	Elective
Elective	Elective	Elective

(sample program, your schedule may differ greatly)

Physics Department:
http://www.physics.uci.edu/
Enrollment questions:
http://www.physics.uci.edu/physics-enrollment-policies
Physics tutoring:
http://www.physics.uci.edu/undergrad-program/academic-help
How to find research:
http://www.physics.uci.edu/undergrad-program/research