B.S. APPLIED PHYSICS DEGREE REQUIREMENTS

A. Core Requirements:
Students must complete all courses

☐ Math 2A OR Math 5A
☐ Math 2B OR Math 2D
☐ Math 2E OR Math 3A
☐ Math 3D
☐ Physics 7C-7D-7E-7LC-7LD OR Physics 3A-3B-3C-3LB-3LC

*Physics 7 series is strongly 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 OR Physics 112A
☐ Physics 113A OR 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 unit)
EECS 70LB (1 unit)

6 /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 /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.

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#__________ Engineering units completed

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)
ENGRMAE 120 (4 units)
ENGRMAE 130A (4 units)
ENGRMAE 147 (4 units)

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:

☐ Chem 1A-1B-1C-1LC-1LD OR Chem H2A-H2B-H2C-H2LA-H2LB OR Chem 1A-1B-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 2017