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 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 □ 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 106 (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)
     ENGMMAE 120 (4 units)
     ENGMMAE 130A (4 units)
     ENGMMAE 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:
   □ Chem 1A-1B-1C-1LC-1LD 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 2016