B.S. APPLIED PHYSICS DEGREE REQUIREMENTS

A. Core Requirements:

Students must complete all courses

□Math 2A OR Math 5A

□Math 2B	□Math 2D
⊔Math 2B	\Box Math 2D

 $\Box Math 2E \qquad \Box Math 3A$

□Math 3D

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

*Physics 7 series is strongly recommended for majors.

 \Box 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



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



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:





The remaining 8 units may be lower-division or upperdivision 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 1A-1B-M3C-M2LA-M2LB

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