B.S. APPLIED PHYSICS DEGREE REQUIREMENTS

A.	Core Requirements: Students must complete all courses		D.	Writing Communication Requirement:
				Students must complete one writing communication course selected from the following
	□Math 2A OR Math 5A			
	□Math 2B	□Math 2D		Physics 194 Physics 120W
	□Math 2E	□Math 3A		Phy Sci 139W Educ 143BW
	□Math 3D			One approved upper-division writing course with
	□Physics 7C-7D-7E-7LC-7LD OR			departmental approval
	Physics 3A-3B-3C-3LB-3LC		E.	Elective Requirement:
*Ph	ysics 7 series is <u>strongly</u>	recommended for majors.		The major requires 32 additional units of coherently related
	□Physics 50 □Physics 53 (or approved alternate programming course) □Physics 60 OR Chem 1C/H2C/M3C OR ENGRMAE 91			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.
	□Physics 61A OR Physics 51A			
	□Physics 111A	□Physics 112A		
	□Physics 113A	□Physics 115A		
В.	Lower-Division Lab	Requirement:		
	Students must comple combination of the for Physics 52A (2 units) Physics 52B (2 units) Physics 52C (2 units) Chem 1LC (3 units) Chem 1LD (3 units) Chem H/M2LA (3 un Chem H/M2LB (3 units) Chem 51LB (3 units) Chem 51LC (3 units) Chem H/M52LA (3 units) Chem H/M52LB (3 units) Chem H/M52LB (3 units) ENGR 7A (2 units) ENGR 7B (2 units) EECS 70LA (1 units) EECS 70LB (1 units)	its) nits) nits)		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) The remaining 8 units may be lower-division or upper-
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 121W (4 units)			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:
	Physics 139 (4 units)	hysics 193 (4 units) /8 units completed		□Bio Sci 97 □Bio Sci 98 □Bio Sci 99
	Physics 196C (4 units)			□Chem 1A-1B-1C-1LC-1LD OR
	EECS 170LA (1 unit) ENGRMAE 150L (1 unit)			Chem H2A-H2B-H2C-H2LA-H2LB OR Chem M2A-M2B-M3C-M2LA-M2LB

ENGRMAE 150L (1 unit)

Other approved upper-division labs

outside of Physics Department

□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.