

PURDUE UNIVERSITY
 Department of Physics
 B.S. with HONORS Applied Physics in Geophysics (76E)

Semester	Physics	Math	Lab Sci	Electives	Credits
1	Phys 172 (H) (4 cr.) Mechanics ®Phys 217 (1 cr.)	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	Foreign Language (3 cr.)	15 -16
2	Phys 272 (H) (4 cr.) Electricity & Magnetism	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	Engl 106 or 108 (3-4 cr.) Foreign Language (3 cr.)	18 - 19
3	#Phys 290G (3 cr.) (Gen and Spl Relativity)	Ma 261 (4 cr.) Calculus III	EAS 243 (4 cr.)	General Ed. (3 cr.)	14 - 17
	#Phys 290F (3 cr.) (Mathematical Physics)				
4	Phys 422 (optics) (3 cr.) Phys344 (Modern Physics) (4 cr.) ®Phys 290A (1cr)	Ma 262/266/366 Differential Eqns.(3-4 cr.)	EAS 111 (3 cr.)	General Ed. (3 cr.)	16 - 18
5	Phys 410 (Mechanics) (3 cr.) Phys 450 (Optics Lab) (2 cr.) Phys 430 (E&M I) (3 cr.)	Math Elective (3 cr.)	EAS 351 (3 cr.)	General Ed. (3 cr.)	17
6	Phys 460 (Quantum I) (3 cr.)	Math Elective (3 cr.)	EAS Elective (3-4 cr.)	General Ed. (3 cr.) Adv. Engl Comp.(3 cr.)	15 - 16
7	Phys 416 (4 cr) (Thermal & Statistical Mechanics) Phys 461 (3 cr)(Quantum II)	EAS or Applied Elective (3 cr.)	EAS 450 (4 cr.) EAS or Applied Elective (3 cr.)		17
8	EAS or Applied Elective (3 cr.)	EAS or Applied Elective (3 cr.)	EAS or Applied Elective (3 cr.) EAS or Applied Elective (3 cr.)	General Ed. (3 cr.) General Ed. (3 cr.)	18

1. The Applied Physics Program differs from the regular program in that only the second semester of a foreign language must be passed; slightly less physics credits are required; and at least 30 hours of **APPLIED** electives are selected rather than free electives.
2. Free electives are credits in excess of required courses that are taken to fulfil the 124 credit hour requirement.
3. A grade point average of 2.0 in all physics and Applied Electives is required.
4. Residency Requirements: At least 32 hrs. of 300 level or above coursework required.
5. General Ed. To be chosen from five areas; 1) literature, philosophy, aesthetics; 2) history, political science; 3) anthropology, economics, psychology, sociology; 4) communications; 5) interdisciplinary studies.
6. *Applied Elective = 1 - 5 credit hours of a Science, Technology or Engineering Class, including upper level physics courses
 # Phys 290G or Phys 290F (3 cr.) (Introduction to Mathematical Methods in Physics) may be taken.