

PURDUE UNIVERSITY
Department of Physics
B.S. with HONORS Applied Physics (76C)

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) #Phys 290F (3 cr.) (Mathematical Physics)	Ma 261 (4 cr.) Calculus III	*Applied Elective (3-4 cr.)	Adv. Engl Comp.(3 cr.)	16 - 17
4	Phys 422 (optics)(3cr.) Phys450(Optics Lab)(2cr) Phys344 (Modern Phys)(4cr) Phys 290A @(1 cr.)	Ma 262/266/366 Differential Eqns.(3-4 cr)		General Ed. (3 cr.)	15 - 17
5	Phys 410 (Mechanics) (3 cr.) Phys 430 (E&M I)(3 cr.)	Math Elective (3 cr.)	*Applied Elective (3-4 cr.)	General Ed. (3 cr.) General Ed. (3 cr.)	18 - 19
6	Phys 460 (Quantum I) (3 cr.)	Math Elective (3 cr.)	*Applied Elective (3-4 cr.) *Applied Elective (3-4 cr.)	General Ed. (3 cr.)	15 - 17
7	Phys 416 (Thermal & Statistical Mechanics)(4cr) Phys 461 (Quantum I) (3cr)	*Applied Elective (3-4cr.)	*Applied Elective (3-4 cr.)	General Ed. (3 cr.)	16 - 18
8	*Applied Elective (3-4 cr.)	*Applied Elective (3-4cr.)	*Applied Elective (3-4 cr.) *Applied Elective (3-4 cr.)	General Ed. (3 cr.)	15 - 19

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; at least 30 hours of APPLIED electives are selected rather than free elective

2. A grade point average of 2.0 in all physics and Applied Electives is required.

3. Residency Requirements: At least 32 hrs. of 300 level or above coursework required.

4. 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.

5. ***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.