

PURDUE UNIVERSITY
Department of Physics
B.S. HONORS Applied Physics with Specialization in Geophysics (7PE)
(Interim until New Physics Curriculum)
(effective Fall 2007)

Semester	Physics	Math	Sci Req.	Sci Req.	Electives	Credits
1	Phys 172 (H) (4 cr.) Mechanics	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	Language& Culture (3 cr.) Teamwork (1 cr.)	[®] Phys 217 (1 cr.)	16 - 17
2	Phys 272 (H) (4 cr.) Electricity & Magnetism	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	Language& Culture (3 cr.) Engl 106 (4 cr.)		19
3	#Phys 290G (3 cr.) (Gen. and Spl. Relativity) OR #Phys 290F (3 cr.) (Mathematical Physics)	Ma 261 (4 cr.) Calculus III		Language& Culture (3 cr.)	EAS 243 (4 cr.)	14 - 17
4	Phys 422 (optics) (3 cr.) Phys344 (Modern Physics) (4 cr)	Ma 262/266/366 Diff. Eqns.(3-4 cr)	CS 158 (3 cr.)	Writing/ Presentation (3 cr.)	EAS 111 (3 cr.) [®] Phys 235 (1cr)	19 - 21
5	Phys 410 (Mechanics) (3 cr.) Phys 430 (E&M I) (3 cr.) Phys 450 (Optics Lab) (2 cr.)	Math Elective (3 cr.)	Statistics (3 cr.)		EAS 3XX (3 cr.) Surface Processes	17
6	Phys 460 (Quantum I) (3 cr.)	Math Elective (3 cr.)	Gen Ed (3 cr.)	Multidisciplinary (3 cr.)	EAS Elective (3-4 cr.) EAS or *Applied Elective (3-4 cr.)	18 - 20
7	Phys 416 (4 cr) (Thermal & Statistical Mechanics) Phys 461 (3 cr)(Quantum II)		Gen Ed (3 cr.)	Great Issues (3 cr.)	EAS or Applied Elective (3-4 cr.)	16 - 17
8			Gen Ed (3 cr.)	EAS or Applied Elective (3-4 cr.) EAS or Applied Elective (3-4 cr.)	EAS or Applied Elective (3-4 cr.) EAS or Applied Elective (3-4 cr.)	15 - 19

Only one of these is Required

[®] Strongly Recommended but not Required.

- 1.The Applied Physics Program differs from the regular program in that slightly fewer physics credits are required; at least 30 hours of APPLIED electives are selected rather than free electives.
2. *Applied Elective = 1 - 5 credit hours of a Science, Technology or Engineering Class, including upper level physics courses.
3. For a partial list of applied electives follow the links on www.physics.purdue.edu.
4. A grade point average of 2.0 in all physics and Applied Electives is required.
5. Minimum number of total credits required = 124 hours. At least 32 hrs. of 300 level or above coursework required.