

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

Semester	Physics	Math	Sci Req.	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.)*** E&M	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	Language& Culture (3 cr.)	Engl 106 (4 cr.)		19
3	#Phys 290G (3 cr.) Special/Gen Relativity OR #Phys 290F (3 cr.) (Mathematical Physics)	Ma 261 (4 cr.) Calculus III		Language& Culture (3 cr.)		EAS 243 (4 cr.) Earth Materials I	14 - 17
4	Phys 342 (3 cr.) Modern Physics [®] Phys 235 (1 cr.)	Ma 266/366/262 Diff Eqns. (3 -4 cr.)		Writing/ Presentation (3 cr.)	CS 158 (3 cr.)	EAS 111 (3 cr.) Physical Geology EAS or *Applied Elective (3-4 cr.)	18 - 21
5	Phys 310 (4 cr.) Intern Mech Phys 322 (3 cr.) Optics Phys 450 (2 cr.) Optics Lab	Math Elective (3 cr.)	Statistics (3 cr.)			EAS 3XX (3 cr.) Surface Processes	18
6	Phys 330 (3 cr.) Intermediate E&M	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 515 (3 cr.) Thermal and Stat Mech Phys 342L (1 cr.) Modern Lab		Gen Ed (3 cr.)	Great Issues (3 cr.)		EAS or Applied Elective (3-4 cr.) EAS or Applied Elective (3-4 cr.)	16 - 18
8	Phys 360 (3 cr.) Quantum Phys 536 (4 cr.) Electronic Techniques		Gen Ed (3 cr.)			EAS or Applied Elective (3-4 cr.) EAS or Applied Elective (3-4 cr.)	16 - 18

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.