

PURDUE UNIVERSITY
Department of Physics
B.S. Applied Physics with Specialization in Nuclear Physics (7PN)
(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		Language & Culture (3 cr.)	Engl 106 (4 cr.)		15
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.)		MSE 235 (3 cr.) (with Nucl 320) Nucl 200 (3 cr.) Nuclear Engr	16 - 19
4	Phys 342 (3 cr.) (Modern Physics)	Ma 262/266/366 Differential Eqns.(3-4 cr)	Statistics (3 cr.)	CS 158 (3 cr.)		[®] Phys 235 (1 cr.) *Applied Elective (3-4 cr.) Nucl 205 (2 cr.) Nucl Engr Lab I	17 - 20
5	Phys 310 (4 cr.) Mechanics Phys 322-450 (5 cr. total) (Optics and Lab)	Math Elective (3 cr.)		Great Issues (3 cr.)		Nucl 300 (3 cr.) Nuclear Structure	18
6	Phys 330 (3 cr.) (Electromagnetism)	Math Elective (3 cr.)		Multidisciplinary (3 cr.) Gen Ed (3 cr.)		Nucl 310 (3 cr.) Neutron Physics *Applied Elective (3-4 cr.)	18 - 19
7	Phys 515 (3 cr.) (Therm & Stat. Mech) Phys 342L (1 cr.) (Modern Lab)		Chm 116 (4 cr.)	Gen Ed (3 cr.)	Nucl 305 (2 cr.) Nucl Engr Lab II	Phys 556 (3 cr.) Nuclear Physics	16
8	Phys 360 (3 cr.) (Quantum)		Writing/ Presentation (3 cr.)	Gen Ed (3 cr.)	*Applied Elective (3-4 cr.)	Nucl 497 (1 - 6 cr.) Special Topics	13 - 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.