

PURDUE UNIVERSITY
Department of Physics
B.S. with Applied Physics in Nuclear Physics

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.) E&M	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	Foreign Language (3 cr.) Engl 106 or 108 (3-4 cr.)	18-19
3	#Phys 290G (3 cr.) (Gen. and Spl. Relativity) #Phys 290F (3 cr.) (Mathematical Physics)	Ma 261 (4 cr.) Calculus III	Mse 235 (3 cr.) Material Science (with Nucl 320) Nucl 200 (3 cr.) Nuclear Engr		13 - 16
4	Phys 342 (3 cr.) (Modern Physics) Phys 290A @ (1 cr.)	Ma 262/266/366 Differential Eqns. (3-4 cr.)	*Applied Elective (3-4 cr.) Nucl 205 (2 cr.) Nucl Engr Lab I	General Ed. (3 cr.)	14 - 17
5	Phys 310 (4 cr.) Mechanics Phys 322-450 (5 cr. total) (Optics and Lab)	Math Elective (3 cr.)	Nucl 300 (3 cr.) Nuclear Structure	Adv. Engl Comp. (3 cr.)	18
6	Phys 330 (3 cr.) (Electromagnetism)	Math Elective (3 cr.)	Nucl 310 (3 cr.) Neutron Physics *Applied Elective (3-4 cr.)	General Ed. (3 cr.)	15 - 16
7	Phys 515 (3 cr.) (Therm & Stat. Mech) Phys 342L (1 cr.) (Modern Lab)	Nucl 305 (2 cr.) Nucl Engr Lab II	Phys 556 (3 cr.) Nuclear Physics	General Ed. (3 cr.) General Ed. (3 cr.)	15
8	Phys 360 (3 cr.) (Quantum)	*Applied Elective (3-4 cr.)	Nucl 497 (1 - 6 cr.) Special Topics	General Ed. (3 cr.) General Ed. (3 cr.)	13 - 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; and at least 30 hours of **APPLIED** electives are selected rather than free electives.

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.