

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

Semester	Physics	Math	Lab Sci	Electives	Credits
1	<b>Phys 172 (H) (4 cr.)</b> <b>Mechanics</b> ⓈPhys 217 (1 cr.)	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	Foreign Language (3 cr.)	15-16
2	<b>Phys 272 (H) (4 cr.)</b> <b>E&amp;M</b>	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	Foreign Language (3 cr.) Engl 106 or 108 (3-4 cr.)	18-19
3	<b>#Phys 290G (3 cr.)</b> <b>(Gen. and Spl. Relativity)</b> <b>#Phys 290F (3 cr.)</b> <b>(Mathematical Physics)</b>	Ma 261 (4 cr.) Calculus III	<b>*Applied Elective</b> (3-4 cr.)	Adv. Engl Comp. (3 cr.)	13 -17
4	<b>Phys 342 (3 cr.)</b> <b>(Modern Physics)</b> ⓈPhys 290A (1cr)	Ma 262/266/366 Differential Eqns.(3-4 cr)	<b>*Applied Elective (3-4 cr.)</b> <b>*Applied Elective</b> (3-4 cr.)	General Ed. (3 cr.)	15 - 19
5	<b>Phys 310 (4 cr.)</b> <b>Mechanics</b> <b>Phys 322-450 (5 cr. total)</b> <b>(Optics and Lab)</b>	Math Elective (3 cr.)	<b>*Applied Elective</b> (3-4 cr.)		15 - 16
6	<b>Phys 330 (3 cr.)</b> <b>(Electromagnetism)</b>	Math Elective (3 cr.)	<b>*Applied Elective (3-4 cr.)</b> <b>*Applied Elective (3-4 cr.)</b>	General Ed. (3 cr.)	15 - 17
7	<b>Phys 515 (3 cr.)</b> <b>(Therm &amp; Stat. Mech)</b> <b>Phys 342L (1 cr.)</b> <b>(Modern Lab)</b>	<b>*Applied Elective</b> (3-4 cr.)	<b>*Applied Elective</b> (3-4 cr.)	General Ed. (3 cr.) General Ed. (3 cr.)	16 - 18
8	<b>Phys 360 (3 cr.)</b> <b>(Quantum)</b>	<b>*Applied Elective</b> (3-4 cr.)	<b>*Applied Elective</b> (3-4 cr.)	General Ed. (3 cr.) General Ed. (3 cr.)	15 - 17

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 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.