

PURDUE UNIVERSITY
 Department of Physics
 B.S. with HONORS Applied Physics Major
 (7PC) (effective Fall 2008)
 Typical Plan of Study

Sem	Physics Department Requirements		College of Science Requirements			Credits
1	Phys 172(H) (4 cr.)** Mechanics	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	CS 177/159/180 (3 - 4 cr.)	[®] Phys 217 (H) (1 cr.) [€] Sci 130 (1 cr.)	15-18
2	Phys 272(H) (4 cr.)*** E&M	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	^β Engl 106 or 108 (4 or 3 cr.)	[€] Sci 130 (1 cr.)	15 - 17
3	[∞] Phys 312 (3 cr.) (Mathematical Physics I) Phys 344 (4 cr.) (Modern Physics) [∞] Phys 340 (1 cr.) (Modern Physics Lab)	Ma 261(4 cr.) Calculus III	^β Foreign Language/ Culture/ Diversity (3 cr)		Appld Phys Elect (3 cr.)	18
4	Phys 313 (3 cr.) (Mathematical Physics II) Phys 422 (3 cr.) (Optics)		Foreign Language/ Culture/ Diversity (3 cr) Great Issues (3 cr.)		Appld Phys Elect (3 cr.) [®] Phys235 (1cr) Careers In Physics	15 - 16
5	Phys 410 (3 cr.) Mechanics Phys 460 (3 cr.) Quantum Phys 450 (2 cr.) Optics Lab		Foreign Language/ Culture/ Diversity (3 cr) Gen Ed (3 cr.)		Appld Phys Elect (3 cr.)	17
6	Phys 430 (3 cr.) Intermediate E&M		Multidisciplinary (3 cr.) Writing & Presentation (3 cr.)		Appld Phys Elect Appld Phys Elect (6 cr.)	15
7	Phys 416 (4 cr) Thermal & Statistical Mechanics Phys 593 (≥3 cr.)		Statistics (301, 350, 503, 511) 3 cr.		Appld Phys Elect Appld Phys Elect (6 cr.)	16
8			Gen Ed (3 cr.) Gen Ed (3 cr.)		Appld Phys Elect Appld Phys Elect Appld Phys Elect (9 cr.)	15

[∞]Phys 312 = Phys 290F; Phys 340= Phys 342L

^β Foreign Language and English Composition are interchangeable in terms of when they are taken.

**Phys (152 + 290D) or Phys (162, 163) are acceptable substitutes

***Phys 241, 261, with Phys (252) or Phys 271 with 271L are acceptable substitutes

[€] MANDATORY. To be taken in Semester 1 or 2

[®] Optional but Strongly Recommended.