

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

Sem	Physics Department Requirements		College of Science Requirements		Electives	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.)	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)			15
4	Phys 313 (3 cr.) (Mathematical Physics II) Phys 422 (3 cr.) (Optics)	Science Electives (3 - 4 cr.)	Foreign Language/ Culture/ Diversity (3 cr) Writing & Presentation (3 cr.)		[®] Phys235 (1cr) Seminar In Careers In Physics	15 - 17
5	Phys 310 (4 cr.) Interm Mech Phys 330 (3 cr.) Interm E & M Phys 450 (2 cr.) Optics Lab		Foreign Language/ Culture/ Diversity (3 cr) Great Issues (3 cr.)			15
6	Phys 360 (3 cr.) Quantum Mech Phys 515 (3 cr.) Therm & Stat Mech		Multidisciplinary (3 cr.) Gen Ed (3 cr.)		Free Electives (3 cr.)	15
7		Science Electives (3 - 4 cr.)	Statistics (301, 350, 503, 511) 3 cr. Gen Ed (3 cr.)		Free Electives (6 cr.)	15 - 16
8	Phys 536 / 580 (3 - 4 cr.) Electronic Techniques / Computational Physics Physics /Astrophysics Elective (≥ 300 level) (3 - 4 cr.)		Gen Ed (3 cr.)		Free Electives (6 cr.)	15 - 17

[∞]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.