**PURDUE UNIVERSITY**  
Department of Physics  
B.S. Applied Physics with Specialization in Astrophysics (7PJ)  
(Interim until New Physics Curriculum)  
(Effective Fall 2007)

|----------|---------|------|----------|----------|----------|-----------|---------|
| 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.) | ASTR 363 (3 cr.)  
Intermediate Astronomy I  
*Applied Elective (3-4 cr.) | 16 - 20 |
| 4        | Phys 342 (3 cr.)  
(Modern Physics) | Ma 262/266/366 (3-4 cr)  
Differential Eqns. | CS 158 (3 cr.) | ®Phys 235 (1 cr.)  
ASTR 364 (3 cr.)  
Intermediate Astronomy II  
*Applied Elective (3-4 cr.) | 15 - 18 |
| 5        | Phys 310 (4 cr.)  
Mechanics  
Phys 322-450 (5 cr. total)  
(Optics and Lab) | Math Elective (3 cr.) | Great Issues (3 cr.) | ASTR 370 (3 cr.)  
Cosmology | 18 |
| 6        | Phys 330 (3 cr.)  
(Electromagnetism) | Math Elective (3 cr.) | Gen Ed (3 cr.) | Multidisciplinary (3 cr.) | *Applied Elective (3-4 cr.) | ASTR 560 (3 cr.)  
Stellar Evolution | 18 - 19 |
| 7        | Phys 515 (3 cr.)  
(Therm & Stat. Mech)  
Phys 342L (1 cr.)  
(Modern Lab) | Chm 116 (4 cr.)  
Gen Ed (3 cr.) | Writing/ Presentation (3 cr.) | PHYS 570D (3 cr.)  
Galactic & Extragalactic Astronomy | 17 |
| 8        | Phys 360 (3 cr.)  
(Quantum) | Statistics (3 cr.) | Gen Ed (3 cr.) | *Applied Elective (3-4 cr.) | ASTR 500 (3 cr.)  
Introduction To High Energy Astronomy | 15 - 16 |

#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.