

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

Semester	Physics	Math	Sci Req.	Sci Req.	Sci Req.	Electives	Credits
1	Phys 172 (H) (4 cr.) Mechanics	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	Language & Culture (3 cr.)	Teamwork (1 cr.)	<sup>®</sup> 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 Differential Eqns.(3-4 cr)		CS 158 (3 cr.)		<sup>®</sup> 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

<sup>®</sup> 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 cour

3. For a partial list of applied electives follow the links on [www.physics.purdue.edu](http://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.

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