PURDUE UNIVERSITY

APPLIED PHYSICS HONORS

College of Science

Physics - BS
APHO
≥120 Credits for graduation Credits

Applied Physics Honors Major Courses (64 – 71 credits)

Required Major Courses (40 – 47 credits)

_____ (4) PHYS 17200 *(also satisfies Science Selective for core* and CoS teambuilding experience requirement*)*
_____ (4) PHYS 27200 *(also satisfies Science Selective for core)*
_____ (3-6) PHYS 30600 (fall) or (MA 36200 and MA 42500)
_____ (3-7) PHYS 30700 (spring) or (MA 35100 (26500) and MA 36600 (26600))
_____ (1) PHYS 34000
_____ (4) PHYS 34400 (fall)
_____ (3) PHYS 41000 (fall)
_____ (4) PHYS 41600 (fall)
_____ (3) PHYS 42200 (spring)
_____ (3) PHYS 43000 (spring)
_____ (2) PHYS 45000
_____ (3) PHYS 46000 (fall)
_____ (3) PHYS 59300

Major Selective* - (24 credits - in chosen applied area(s) approved by the Physics Department)

_____ ( ) _____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____
_____ ( ) _____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____

Other Departmental /Program Course Requirements (41-68 credits)

_____ (4-5) MA 16100 or MA 16500 (satisfies *Quantitative Reasoning Selective* for core)
_____ (4-5) MA 16200 or MA 16600 (satisfies *Quantitative Reasoning Selective* for core)
_____ (4) MA 26100 (satisfies *Quantitative Reasoning Selective* for core)
_____ (4) CHM 11500 *(satisfies Science Selective for core)*
_____ (4) CHM 11600 *(satisfies Science Selective for core)*
_____ (3-4) C S 15800 or CS 17700 or CS 18000 LINK (satisfies CoS Computing and Teambuilding Experience Requirement)
_____ (3) STAT 30100 LINK *(satisfies Information Literacy Selective for core)* or STAT 35000 or STAT 50300 or STAT 51100 (satisfies CoS statistics requirement) (satisfies one of the Science/Engineering requirements for Physics Selective)
_____ (3-6) ENGL 10600 or ENGL 10800 LINK *(satisfies Written Communication & Information Literacy for core* and CoS composition requirement*)*
_____ (0-6) COM 21700 LINK *(satisfies Oral Communication for core* and CoS technical writing and presenting requirement*)*
_____ (0-4) Language I Selective –LINK
_____ (0-4) Language II Selective – LINK
_____ (0-4) Language and Culture III Selective –*LINK (Select courses COULD satisfy Human Cultures Humanities for core)*
_____ (3) General Education Elective I LINK (*Select courses could satisfy Human Cultures Humanities for core*)
_____ (3) General Education Elective II LINK (*Select courses could satisfy Human Cultures Humanities for core)*
_____ (3) General Education Elective III LINK (*Select courses could satisfy Humanities Behavioral/Social Science for core*)
_____ (3) Great Issues LINK (satisfies one of the Science/Engineering requirements for Physics Selective)
_____ (0-3) Multidisciplinary Elective LINK (*Select courses could satisfy Science, Technology & Society Selective for core*)

Electives (≤ 18 credits)

_____ ( ) _____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____

University Core Requirements LINK

Human Cultures Humanities	☐ _____	*Science, Technology & Society Selective*	☐ _____
Human Cultures Behavioral/Social Science	☐ _____	*Written Communication*	☐ _____
Information Literacy	☐ _____	*Oral Communication*	☐ _____
Science Selective	☐ _____	*Quantitative Reasoning*	☐ _____
Science Selective	☐ _____		

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The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

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Effective Fall 2015

Applied Physics Honors

http://www.physics.purdue.edu/academic-programs/plans_of_study/index.html

Suggested Arrangement of Courses:

Credits	**Fall 1st Year**	**Prerequisite**	Credits	**Spring 1st Year**	**Prerequisite**
4	PHYS 17200* (HONORS)	ALEKS 85%	4	PHYS 27200* (HONORS)	PHYS 17200 + MA 162 coreq
5	Calculus I Selective *	ALEKS 85%	4	CHM 11600*	CHM 11500
4	CHM 11500*	MA 161 coreq	5	Calculus II Selective *	Calculus I
4	ENGL 10600*		3-4	Language I Selective	
17			**16-17**		

3	PHYS 30600	PHYS 272 + coreq MA 261	Credits	**Spring 2nd Year**	**Prerequisite**
1	PHYS 34000	coreq Phys 344	3	PHYS 30700	PHYS 272 + coreq MA 261
4	PHYS 34400	PHYS 272 + coreq MA 261	3	PHYS 42200	PHYS 272
4	Calculus III Selective *	Calculus II	3 - 4	Language III Selective/culture	Language 102/ usually no pre-req
3 -4	Language II Selective	Language 101	3	STAT 30100*	
3	PHYS 30600	PHYS 272 + coreq MA 261	3	Science/Engineering Selective ≥300	Prerequisites may vary
15-16			**15-16**		

Credits	**Fall 3rd Year**	**Prerequisite**	Credits	**Spring 3rd Year**	**Prerequisite**
3	PHYS 41000	PHYS 272 + MA 261	3	PHYS 43000	(PHYS 272 and MA 261 and (PHYS 306 or MA 362)) C- or better
3	PHYS 46000	PHYS 344 + coreq PHYS410	3	Applied Physics Elective	Prerequisites may vary
2	PHYS 45000	PHYS 42200	3	Applied Physics Elective	Prerequisites may vary
3	COM 21700*		3	Applied Physics Elective	Prerequisites may vary
3 -4	CS 15800 (or CS 17700)	MA 161 coreq	3	General Ed (Humanities)*	
1	Elective	Prerequisites may vary			
15 - 16			**15**		

Credits	**Fall 4th Year**	**Prerequisite**	Credits	**Spring 4th Year**	**Prerequisite**
4	PHYS 41600	Coreq (PHYS 410 and 430 and 460) C- or better	3	Applied Physics Elective	Prerequisites may vary
3	PHYS 59300		3	Applied Physics Elective	Prerequisites may vary
3	Applied Physics Elective	Prerequisites may vary	3	Applied Physics Elective	Prerequisites may vary
3	Applied Physics Elective	Prerequisites may vary	3	General Ed (Behav./Social Science)*	
3	General Ed (Humanities)*		3	Multidisciplinary (STS)*	
16			**15**		

Identified as a critical course. Student should earn minimum of a B- see advisor for further details.

* Satisfies a University Core Requirement

120 semester credits required for Bachelor of Science degree.

3.0 Graduation GPA required for Bachelor of Science degree.

3.0 average in PHYS/ASTR classes required to graduate.

No more than one C grade (i.e., C+, C, or C-) is allowed in all physics courses taken

No grade of D+ or worse is allowed in any course.

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