

PHYSICS HONORS

College of Science

Physics - BS PHHO 120 Credits for graduation Credits

Physics I	Honors Major Courses (66-68 credits)							
Requir	ed Major Courses (51 - 52 credits)							
(4)	PHYS 17200 Modern Mechanics - (also satisfies Science Selective for core and CoS teambuilding experience requirement) cc							
(4)	PHYS 27200 Electric and Magnetic Interactions (also satisfies Science Selective for core) cc							
(4-5)	Calculus III Option – Select from MA 26100, MA 27101 (satisfies Quantitative Reasoning for core)							
(3)	PHYS 30600 (fall) Math Methods I							
(3)	PHYS 30700 (spring) Math Methods II							
(1)	PHYS 34000 - Modern Physics Lab							
(1)	PHYS 34400 (fall) Modern Physics							
(3)	PHYS 41000 (fall)- Physical Mechanics I Honor	re						
(2)	PHYS 41100 (spring) Physical Mechanics II Ho							
(2) (4)	PHYS 41600 (fall) Thermal & Statistical Physic							
(3)	PHYS 42200 (spring) Waves & Oscillations	23 11011013						
(3)								
(2)	PHYS 43000 (spring) Electricity & Magnetism I Honors PHYS 43100 (fall) Electricity & Magnetism II Honors							
(2)	PHYS 45000 Intermediate Laboratory	1011013						
		ra .						
(3)	PHYS 46000 (fall) Quantum Mechanics I Hono							
(3)	PHYS 46100 (spring) Quantum Mechanics II H PHYS 59300 Independent Research	1011015						
	Selective* - (15-16 credits)							
•	PHYS/ASTR Selective ≥500 level							
``	•							
	PHYS/ASTR Selective ≥500 level Adv. Leb Option: Select From PHYS 52600 on PHYS 57000 Computation! Biomelecular Phys (spring) on PHYS 59000 (fell)							
	Adv Lab Option: Select From PHYS 53600 or PHYS 57000-Computationl Biomolecular Phys (spring) or PHYS 58000 (fall) Science/Engineering Selective ≥300 level (could be met by CoS statistics requirement)							
	Science/Engineering Selective ≥300 level (could be met by CoS statistics requirement) Science/Engineering Selective ≥300 level (could be met by CoS Great Issues requirement)							
Other Departmental /Program Course Requirements (37-66 credits)								
	(3-4) First Year Composition Option (satisfies Written Communication and Information Literacy for core)							
	Technical Writing Option (Select courses COULD satisfy Oral Communication for core)							
(0-3)	Technical Presenting Option_(Select courses COULD satisfy Oral Communication for core)							
(0-4)	Teambuilding and Collaboration Experience							
(0-4)	Language I Option							
(0-4)	Language II Option							
(0-4)	Language III/Culture/Diversity Option (Select courses COULD satisfy Human Cultures Humanities for core)							
(3)	Great Issues Option (satisfies one of the Science	e/Engineering requirements for Physics S	Selective)					
(0-3)	Multidisciplinary Experience (Select courses could satisfy Science, Technology & Society Selective for core)							
(4)	CHM 11500 - General Chemistry I - (satisfies Sc	cience Selective for core)						
(4)	CHM 11600 - General Chemistry II (satisfies Scientific	ence Selective for core)						
(4-5)	Calculus I Option - Select from MA 16100, M	IA 16500 (satisfies Quantitative Reasoning	for core)					
	Calculus II Option – Select from MA 16200, N							
	Statistics Option		,					
	Computing Option							
	General Education I Option (Select courses could	d satisfy Human Cultures Humanities for c	ore)					
	General Education I Option (Select courses could							
	General Education III Option (Select courses courses courses)							
	s (1 - 17 credits)	na sacisjy framamicies behaviorally social s	cience for corej					
()		()	()					
()		()	()					
University Core Re	quirements							
Human Cultures Humo	anities \square	Science, Technology & Society Selective						
Human Cultures Beha Science	vioral/Social	Written Communication						
Information Literacy		 Oral Communication	$\overline{}$					
Science Selective		Quantitative Reasoning						
Science Selective	\Box	<u> </u>						
:	**************	****************	******					

Physics Honors

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	PHYS 17200 (Honors sections)* cc	ALEKS 85%	4	PHYS 27200 (Honors sections)* cc	PHYS 17200 + Coreq:Calculus II
4-5	Calculus I Option *	ALEKS 85%	4	CHM 11600*	CHM 11500
4	CHM 11500*	ALEKS 75%	4-5	Calculus II Option *	Calculus I C- or higher
3-4	First Year Composition Option		3-4	Language I Option	
0	Teambuilding and Collaboration Experience				
15-17			15-17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	PHYS 30600	PHYS 272 +coreq Calculus	3	PHYS 30700	PHYS 272 +coreq MA 261
1	PHYS 34000	coreq Phys 344	3	PHYS 42200	PHYS 272
4	PHYS 34400	PHYS 272 + coreq CalculusIII	3 - 4	Language III/Culture/Diversity Option	Language 102/ usually no pre-req
4 - 5	Calculus III Option	Calculus II C- or higher	3	Statistics Option	Prerequisites may vary
3 -4	Language II Option	Language 101	3	Science/Engineering Selective ≥300	Prerequisites may vary
			1	Free Elective (PHYS 23500)	
15-17	•		16-17	•	

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	PHYS 41000	PHYS 272 + coreq CalculusIII	2	PHYS 41100	(PHYS 310 or 410) C- or better
3	PHYS 46000	PHYS 344 + coreq PHYS410	3	PHYS 46100	(PHYS 460 or 360 or 550) C- or better
2	PHYS 45000	PHYS 42200	3	PHYS 43000	PHYS 272 + coreq CalculusIII and (PHYS 306 or MA 362)) C- or better
3-6	Technical Writing Option and Technical Presenting Option (COM 21700*)		3	General Education II Option (Humanities)*	
3	General Education I Option(Humanities)*		3 - 4	Computing Option (CS 15800)	Calculus I coreq
1	Free Elective		1	Free Elective	
15 - 18	•		15-16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
4	PHYS 41600	Coreq (PHYS 410 and 430 and 460) C- or better	3-4	Adv Lab Option:	Prerequisites may vary
2	PHYS 43100	PHYS 430 – C- or better	3	PHYS/ASTR Selective ≥500	Prerequisites may vary
3	PHYS 59300		3	PHYS/ASTR Selective ≥ 500	Prerequisites may vary
3	Science/Engineering Selective≥300	Prerequisites may vary	3	General Education III Option (Behav./Social Science)*	
3	Great Issues Option	Jr/Sr Standing; may require COM or ENGL	2	Multidisciplinary Experience (STS)*	
			1	Free Elective	
15	15		15-16		

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

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.

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

Degree Works is knowledge source for specific requirements and completion

^{*} Satisfies a University Core Requirement. Courses in () are recommended.