

APPLIED PHYSICS

College of Science

Physics - BS APPH 120 Credits for graduation Credits

	(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 of Physics I (3) PHYS 30700 (spring) Math Methods of Physics II (1) PHYS 31000 (fall) Intermediate Mechanics (4) PHYS 33000 (fall) Intermediate Electricity & Magnetism								
(3)	PHYS 34400 (fall) Modern Physics								
(3)	PHYS 36000 (spring) Quantum Mechanics								
(3)	PHYS 42200 (spring) Waves & Oscillations PHYS 45000 Intermediate Laboratory								
(2)	PHYS 51500 (spring)- Ther	-							
(3)	Titto 51500 (spring) Ther	mar & statistical r mysics							
Major Selective* - (24 credits - in chosen applied area(s) approved by the Physics and Astronomy Department) ()									
	r Departmental /Program	_	-	-					
(3-4)	First Year Composition Op				core)				
	(0-3) Technical Writing Option (Select courses COULD satisfy Oral Communication for core) (0-3) Technical Presenting Option (Select courses COULD satisfy Oral Communication for core)								
(0-3)	•	•	satisfy Oral Comm	nunication for core)					
(0-4)									
(0-4)	Language I Option Language II Option								
(0-4)	Language III/Culture/Diver	sity Ontion (Select cours	es COIII.D satisfy l	Human Cultures Humani	ties for core)				
(3) (0-3)	(3) Great Issues Option (satisfies one of the Science/Engineering requirements for Physics Selective) (0-3) Multidisciplinary Experience (Select courses could satisfy Science, Technology & Society Selective for core)								
(4)									
(4)	CHM 11600 - General Chem	istry II (satisfies Science	Selective for core)						
(4-5)	Calculus I Option – Select								
(4-5)	Calculus II Option – Select	from MA 16200, MA 1	6600 (satisfies Qu	antitative Reasoning for (core)				
(3)	Statistics Option								
(3-4)	Computing Option								
(3)	General Education I Option								
(3)	General Education II Option								
(3)	General Education III Optio	n (Select courses coula s	atisjy Humanities	Benavioral/Social Scienc	ce for core)				
Free Flecti	ves (1-18 credits)								
		()	()		()				
	ore Requirements				()				
Human Cultures Hu	imanities \Box		Science, Techno Selective	ology & Society					
Human Cultures Be Science	havioral/Social		Written Commi	unication					
Information Literac			Oral Communic	ration					
Science Selective			Quantitative Re	easoning					
Science Selective									
******	**********	*******	******	******	********				
	The student is ultimat	ely responsible for k	nowing and co	mpleting all degree	requirements.				
	Degree Works	s knowledge source	for specific red	quirements and com	pletion				

Applied Physics

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 III	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	General Education I Option (Humanities)*	
			1	Free Elective (PHYS 23500)	
15-17			16-17		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	PHYS 31000	PHYS 272 + coreq CalculusIII	3	PHYS 36000	(PHYS 310 or 330) + PHYS 344
3	PHYS 33000	PHYS 272 + coreq CalculusIII	3	PHYS 51500	Coreq PHYS 310 + 344 + 360 + 330
2	PHYS 45000	PHYS 42200	3	Major Selective	Prerequisites may vary
3-6	Technical Writing Option and Technical Presenting Option (COM 21700*)		3	Major Selective	Prerequisites may vary
3 - 4	Computing Option (CS 15800)	Calculus I coreq	3	General Education II Option(Humanities)*	
15 -19			15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Major Selective	Prerequisites may vary	3	Major Selective	Prerequisites may vary
3	Major Selective	Prerequisites may vary	3	Major Selective	Prerequisites may vary
3	Major Selective	Prerequisites may vary	3	Major Selective	Prerequisites may vary
3	Great Issues Option	Jr/Sr Standing; may require COM or ENGL	3	General Education III Option (Behav./Social Science)*	
3	Free Electives	Prerequisites may vary	1-3	Multidisciplinary Experience (STS)*	
			2	Free Electives	Prerequisites may vary
15			15 - 17		

^{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.
2.0 Graduation GPA required for Bachelor of Science degree.
2.0 average in PHYS/ASTR classes required to graduate.

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

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