

Physics, B.S. - General Subplan/Option: 120 units
Associate Degree Transfer, Physics, AS-T
2021-2022 Academic Year

Students should adhere to this recommended plan to ensure completion of degree within 60 units.

	Fall		Units	Spring		Units	Comments	
	Courses	Requirements/Comments		Courses	Requirements/Comments			
Year 1	PHY 2540 Introduction to Thermal and Quantum Physics [F]	Prereq: C- or better in PHY 234 or PHY 2530. Coreq: PHY 2540A.	2	PHY 3210 Advanced Classical Mechanics [Sp]	Prereq: C- or better in PHY 2530; C- or better in MAT 201, MAT 2010, or CS 1260; and C- or better in MAT 216 or MAT 2250. Coreq: PHY 3210A.	3	<i>Transfer students may take either PHY2540/L/A or PHY2530/L/A as needed based on transfer credit.</i>	
	PHY 2540L Introductory Laboratory on Thermal and Quantum Physics [F]	Coreq: PHY 2540.	1	PHY 3210A Advanced Classical Mechanics Recitation Activity [Sp]	Coreq: PHY 3210.	1		
	PHY 2540A Thermal and Quantum Physics Recitation Activity [F]	Coreq: PHY 2540.	1	PHY 4140 Electricity and Magnetism I [Sp]	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4140A.	3		
	PHY 3600 Mathematical Methods of Physics I [F]	Prereq: C- or better in MAT 216 or MAT 2250. Coreq: PHY 2540 and PHY 3600A.	3	PHY 4140A Electricity and Magnetism I Recitation Activity [Sp]	Coreq: PHY 4140.	1		
	PHY 3600A Mathematical Methods of Physics I Recitation Activity [F]		1	Major Electives [FSp]	Select from Curriculum Sheet	3		
	MAT 2250 Linear Algebra with Applications to Differential Equations [FSp]	MAT 116, MAT 1150, or MAT 1150C.	4	PLS 4205 American Political Institutions and Behavior (D4, Amer. Ideals Part B) [FSp]	If American Ideals requirement has been satisfied by lower division transferred courses, take any D4 Social Science Synthesis course.	3		
	Emphasis Recommended [FSp]	CS 1260 Python for Beginners or MAT 2010 Introduction to Computational Methods in Mathematics	3			0		
	Total Units		15	Total Units		14		

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Year 2	PHY 4330 Thermal and Statistical Physics [F]	Prereq: C- or better in PHY 235 or PHY 2540; C- or better in MAT 214 or MAT 2140; and C- or better in MAT 216 or MAT 2250. Coreq: PHY 4330A.	3	PHY 4630 Undergraduate Seminar [Sp]	Prereq: C- or better in PHY 235 or PHY 2540.	1	
	PHY 4330A Thermal and Statistical Physics Recitation Activity [F]	Coreq: PHY 4330.	1	CHM 1210 General Chemistry I (B1) [FSpSu]	Prereq: SAT Math \geq 550; ACT Math \geq 23; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250,	3	
	PHY 4010 Quantum Mechanics I [F]	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4010A.	3	CHM 1210L General Chemistry Laboratory I (B3) [FSpSu]	Prereq: SAT Math \geq 550; ACT Math \geq 23; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250,	1	
	PHY 4010A Quantum Mechanics I Recitation Activity [F]		1	Major Electives [FSp]	Select from Curriculum Sheet	3	
	Major Electives [FSp]	Select from Curriculum Sheet	4	Major Electives [FSp]	Select from Curriculum Sheet	4	
	HST 3340 History of American Institutions and Ideals, 1877-present (C3, Amer. Ideals Part A) [FSp]	Prereq: If American Ideals requirement has been satisfied by lower division transferred courses, take any D4 Social Science Synthesis course.	3	GE Area B5: Science and Technology Synthesis [FSp]	Prereq: Junior or senior standing; and Lower division GE requirements in Area A and B.	3	
			0	Unrestricted Electives [FSp]		1	
	<i>File an application to graduate</i>						
	Semester Total Units		15	Semester Total Units		16	
Total Units					60		