

Physics, B.S. - General
Associate Degree Transfer, Physics, AS-T
2019-2020 Academic Year

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

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	MAT 2010 Introduction to Computational Methods in Mathematics	Prereq: MAT 116 or MAT 1150. Coreq: MAT 2010L.	2	PHY 3600 Mathematical Methods of Physics I	Prereq: C- or better in MAT 216 or MAT 2250. Coreq: PHY 2540 and PHY 3600A.	3	<i>Transfer students may take either PHY2540/L or PHY2530/L as needed based on transfer credit.</i>
	MAT 2010L Introduction to Computational Methods in Mathematics Laboratory	Coreq: MAT 2010.	1	PHY 3600A Mathematical Methods of Physics I Recitation Activity	Coreq: PHY 3600.	1	
	CHM 1210 General Chemistry I (B1)	Prereq: 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, STA 120, or STA 1200; or C- or better	3	PHY 4330 Thermal and Statistical Physics	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	
	CHM 1210L General Chemistry Laboratory I (B3)	Prereq: 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, STA 120, or STA 1200; or C- or better Coreq: CHM 1210.	1	PHY 4330A Thermal and Statistical Physics Recitation Activity	Coreq: PHY 4330.	1	
	PHY 2530 Introduction to Electromagnetic Radiation and Special Relativity	or PHY 2540 Introduction to Thermal and Quantum Physics	3	PHY 4140 Electricity and Magnetism I	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4140A.	3	
	PHY 2530L Introductory Laboratory on Electromagnetic Radiation and Special Relativity	or PHY 2540L Introductory Laboratory on Thermal and Quantum Physics	1	PHY 4140A Electricity and Magnetism I Recitation Activity	Coreq: PHY 4140.	1	
	MAT 2250 Linear Algebra with Applications to Differential Equations	Prereq: MAT 116, MAT 1150, or MAT 1150C.	4	Option Electives	Select from Curriculum Sheet	3	
	<i>Take the Graduation Writing Test.</i>						
Total Units			15	Total Units			15

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 2	PHY 3210 Advanced Classical Mechanics	Prereq: C- or better in PHY 2530; C- or better in MAT 201 or MAT 2010; and C- or better in MAT 216 or MAT 2250. Coreq: PHY 3210A.	3	PHY 4630 Undergraduate Seminar	Prereq: C- or better in PHY 235 or PHY 2540.	1	
	PHY 3210A Advanced Classical Mechanics Recitation Activity	Coreq: PHY 3210.	1	Option Electives	Select from Curriculum Sheet	4	
	PHY 4010 Quantum Mechanics I	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4010A.	3	Option Electives	Select from Curriculum Sheet	4	
	PHY 4010A Quantum Mechanics I Recitation Activity	Coreq: PHY 4010.	1	Option Electives	Select from Curriculum Sheet	3	
	PHY 4140 Electricity and Magnetism I	Prereq: C- or better in PHY 309 or PHY 3600. Coreq: PHY 4140A.	3	GE Area D4: Social Science Synthesis		3	
	PHY 4140A Electricity and Magnetism I Recitation Activity	Coreq: PHY 4140.	1			0	
	GE Area C3: Arts and Humanities Synthesis		3			0	
	<i>File an application to graduate</i>						
Semester Total Units		15	Semester Total Units		15		
			Total Units		60		