Requirements	Semester Course Number	Course Title	Semester Units	Quarter Equivalent Course Number	Quarter Credits	Notes	Relevant Learning Goals Achieved (see below)
		Prerequisite Co	0114505+				
Introductory Moth	Math 1251	Calc I	5	Math 151	5	Semester sequence	2
Introductory Math	Math 1258	Calc II		Math 152	_	has same content as	
	Math 1258	Caic II	5		5	quarter sequence	
				Math 153	5	1 1	
Upper Division Math	Math 2249	CalcIII	3	Math 254	5	Content of current 254	2
	Math 2431	LinAlg/DiffEq	3	Math 415	4	Some material from	2
				Math 568	3	415 and 568 (topics still under discussion)	
Computing	CSE 1211	Intro to C++	2	CSE 202	4	Same content	3
		Physics Co	re:				
Introductory	Physics 1250/1250H	Mechanics, Thermal	5	Physics	5	Semester sequence	1,2
	•	Physics, Waves		131/131H		has same content as	
	Physics 1251/1251H	E&M, Optics, Modern Physics	5	Physics 132/132H	5	quarter sequence	
				Physics	5		
T . T .	DI	D		133/133H			1.0
Intermediate	Physics 2300	Dynamics of Particles and Waves I	4	Physics 261	4	Semester sequence has same content as	1,2
	Physics 2301	Dynamics of Particles and Waves II	4	Physics 262	4	quarter sequence	
				Physics 263	4		
	Physics 2095	Introductory Seminar	1	Physics 295	1	Same Content	6
Upper Division	Physics 5400/5400H	E&M I	4	Physics 555	4	Semester course has	1,2
	-			Physics 656	4	all of 555 and some of 656	

Requirements	Semester Course Number	Course Title	Semester Units	Quarter Equivalent Course Number	Quarter Credits	Notes	Relevant Learning Goals Achieved (see below)
	Physics 5500/5500H	Quantum I	4	Physics 631	4	Semester course has	1,2
				Physics 632	4	all of 631 and some of 632	
Physics Labs Core	Physics 3700	Methods in Experimental Physics	3	Physics 416	4	Same content	3,4,5
	Physics 4700	Intro Electronics for Physicists	3	Physics 517	4	Same content	3,4,5
	Physics 5700	Advanced Laboratory	3	Physics 616	4	Same content	3,4,5
		Physics Elect	tives:				
	Physics 3455H	Honors Holography	3	Physics H455	4	Same content	3,4,5
	Physics 3470	Optics	3	Physics 570	4	Same content	2
Grad introductory	Physics 6802	Topics in Elementary Particle Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6803	Topics in Astroparticle Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6804	Topics in Atomic and Molecular Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6805	Topics in Nuclear Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6806	Topics in Condensed Matter Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6809	Topics in Biophysics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6810	Topics in Computational Physics	4	Physics 780.xx	4	Enhanced content	1,7
	Physics 6820	Special Topics	4	Physics 780.xx	4	Enhanced content	1,7

Requirements	Semester Course Number	Course Title	Semester Units	Quarter Equivalent Course Number	Quarter Credits	Notes	Relevant Learning Goals Achieved (see below)
	Additio	nal Required Courses, A	dvanced Phy	vsics Option			
	Physics 5401H	E&M II	4	Physics 656	4	Semester course has	1,2
				Physics 657	4	some of 656 and all of 657	
	Physics 5501H	Quantum II	4	Physics 632	4	Semester course has	1,2
				Physics 633	4	some of 632 and all of 633	
	Physics 5600	Statistical Physics	4	Physics 621	4	Semester course has	1,2
				Physics 622	4	all of 621 and some of 622	
	Physics 5300	Theoretical Mechanics	4	Physics 664	4	Enhanced content	1,2
	1 Physics Electiv	onal Required Courses, A ve From Above List n Minor, Double Major	3 15	Elective	18	Same content Enhanced content	7
	Additio	onal Required Courses, P	hvsics Teacl	ning Option			
	1 Physics Elective From Above List		3	Elective	3	Enhanced content	1,2
	Physics 5100		4	Physics 670	5	Enhanced content	7
	Bio 113		4	Bio 113	5	Enhanced content	7
	Earth Sci 110		3	Earth Sci 110	3	Same content	7
	Geog 520		3	Geog 520	3	Same content	7
	Astron 291		3	Astron 291	3	Same content	7
	Chem 121		5	Chem 121	5	Semester sequence	7
	Chem 122		5	Chem 122	5	has same content as	
				Chem 123	5	quarter sequence	

Requirements	Semester Course Number	Course Title	Semester Units	Quarter Equivalent Course Number	Quarter Credits	Notes	Relevant Learning Goals Achieved (see below)
	<u>Add</u>	<u>itional Required Course</u>	s, Life Science	es Option			
	1 Physics Electi	ve From Above List	3	Elective	4	Same content	1,2
	Bio 113		4	Bio 113	5	Enhanced content	7
	Bio 114		4	Bio 114	5	Enhanced content	7
	Chem 121		5	Chem 121	5	Semester sequence	7
	Chem 122		5	Chem 122	5	has same content as	
				Chem 123	5	quarter sequence	
	Chem 251		4	Chem 251	4	Semester sequence	7
	Chem 252		4	Chem 252	4	has same content as	
				Chem 253	4	quarter sequence	
	Chem 254		2	Chem 254	3	Same content	
	Chem 255		2	Chem 255	3	Same content	7
					1		
Learning Goal	1	Undergraduate Phys physics, from classical modern ph					
	2	Undergraduate Physic skills in areas involving					
	3	Undergraduate Physic					
	4	Undergraduate Physic analysis					
	5	Undergraduate Physic understanding both pr					
	6	Undergraduate majors research, industrial res their interest, ability a					
	7	Undergraduate majors option					