

Physics (Traditional Option) Four-year Course Sequence

Starting Fall

Freshman Fall		Freshman Spring	
Phys 2210	5	Phys 2220	5
Math 1210	4	Math 1220	4
Math 1200	1	Gen Ed	6
Gen Ed	5	Total	15
Total	15		
Sophomore Fall		Sophomore Fall	
Chem 1210	5	Chem 1220	5
Math 2210	4	Phys 3710	3
Phys 2300	3	Math 2280	3
Phys 2710	3	Elect/Gen Ed	4
Total	15	Total	15
Junior Fall		Junior Spring	
Phys 3500	3	Math 2270	3
Phys 3510	3	Phys 3180	3
Phys 3190/3410	3 or 4	Phys 3540	3
Elect/Gen Ed	5 or 6	Elect/Gen Ed	6
Total	15	Total	15
Senior Fall		Senior Spring	
Math 3710	3	Phys 4990	1
Elect/Gen Ed	12	Phys 4610	3
Total	15	Phys 4400	2
		Elect/Gen Ed	9
		Total	15

PHYS 3710 can be taken in Junior year, spring.

Starting Spring

Freshman Fall		Freshman Spring	
		Phys 2210	5
		Math 1210	4
		Math 1200	1
		Gen Ed	8
		Total	18
Sophomore Fall		Sophomore Fall	
Phys 2220	5	Chem 1210	5
Math 1220	4	Phys 3180	3
Gen Ed	6	Math 2210	4
Total	15	Elect/Gen Ed	6
		Total	18
Junior Fall		Junior Spring	
Phys 2300	3	Math 2270	3
Phys 2710	3	Phys 3710	3
Chem 1220	5	Elect/Gen Ed	12
Math 2280	3	Total	18
Elect/Gen Ed	4		
Total	18		
Senior Fall		Senior Spring	
Phys 3500	3	Phys 4990	1
Phys 3510	3	Phys 4610	3
Phys 3190/3410	3 or 4	Phys 4400	2
Math 3710	3	Phys 3540	3
Elect/Gen Ed	2 or 3	Elect/Gen Ed	6
Total	15	Total	15

PHYS 3710 can be taken in Senior year, spring.

Applied Physics Four-year Course Sequence

Starting Fall

Freshman Fall		Freshman Spring	
Phys 2210	5	Phys 2220	5
Math 1210	4	Math 1220	4
Math 1200	1	Total	9
Total	10		
Sophomore Fall		Sophomore Spring	
Phys 2300	3	Phys 2600	1
Phys 2710	3	Sp Phys Elective (i.e. Phys 3180)	3
Chem 1210	5	Chem 1220	5
Math 2210	4	Math 2280	3
Total	15	Total	12
Junior Fall		Junior Spring	
Phys 3510	3	Phys 3540	3
If even: Phys 3500	3	Sp Phys Elective (i.e. Phys 3710)	3
If odd: Phys 3190	3	Phys 4400	2
Math 3410	3	Math 3420	3
Total	9	Total	8 or 9
Senior Fall		Senior Spring	
F Phys Elective (i.e. Phys 3410)	4	Phys 4990	1
If odd: Phys 3190	3	Phys 4400	2
If even: Phys 3500	3	Sp Phys Elective (i.e. Phys 4200)	3
Phys 4800	1	Total	3 or 4
Total	8		

Starting Spring

Freshman Fall		Freshman Spring	
		Phys 2210	5
		Math 1210	4
		Math 1200	1
		Chem 1210	5
		Total	15
Sophomore Fall		Sophomore Spring	
Phys 2220	5	Sp Phys Elective (i.e. Phys 3180)	3
Phys 2300	3	Phys 2600	1
Chem 1220	5	Math 2210	4
Math 1220	4	Total	8
Total	17		
Junior Fall		Junior Spring	
Phys 2710	3	Math 3410	3
If even: Phys 3500	3	Sp Phys Elective (i.e. Phys 3710)	3
If odd: Phys 3190	3	Phys 4400	2
Math 2280	3	Total	5 or 6
Total	13		
Senior Fall		Senior Spring	
Phys 4800	1	Phys 4990	1
If odd: Phys 3190	3	Phys 4400	2
If even: Phys 3500	3	Sp Phys Elective (i.e. Phys 4200)	3
Phys 3510	3	Phys 3540	3
Math 3420	3	Total	6 or 7
Total	10		

Astrophysics Option Four-year Course Sequence

Starting Fall			
Freshman Fall		Freshman Spring	
Phys 2210	5	Phys 2220	5
Math 1210	4	Math 1220	4
Phys 2040	3	Gen Ed	6
Math 1200	1	Total	15
Gen Ed	2		
Total	15		
Sophomore Fall		Sophomore Spring	
		Chem 1220	
		or Micr 2054 (4)	
Chem 1210	5	or GEO 1110 (4)	5
Phys 3410	4	Phys 2710 (F)	3
Math 2210	4	Math 2280 (F, S)	3
Electives/Gen Ed	2	Electives/Gen Ed	4
Total	15	Total	15
Junior Fall		Junior Spring	
Phys 3500	3	Phys 3160 or 3170	3
Phys 3510	3	Phys 3540	3
Phys 2300	3	Phys 3180	3
Electives/Gen Ed	6	Math 2270	3
Total	15	Electives/Gen Ed	3
		Total	15
Senior Fall		Senior Spring	
Math 3710	3	Phys 4400	2
Electives/Gen Ed	12	Phys 3160 or 3170	3
Total	15	Electives/Gen Ed	9
		Phys 4990	1
		Total	15

Starting Spring			
Freshman Fall		Freshman Spring	
		Phys 2210	5
		Math 1210	4
		Chem 1210	5
		Math 1200	1
		Gen Ed	2
		Total	17
Sophomore Fall		Sophomore Spring	
		Chem 1220	
		or Micr 2054 (4)	
Phys 2220	5	or GEO 1110 (4)	5
Math 1220	4	Phys 2710	3
Phys 2040	3	Math 2210	4
Gen Ed	6	Electives/Gen Ed	6
Total	18	Total	18
Junior Fall		Junior Spring	
Phys 3500	3	Phys 3160 or 3170	3
Phys 3510	3	Phys 3540	3
Phys 2300	3	Phys 3180	3
Math 2280	3	Math 2270	3
Electives/Gen Ed	6	Electives/Gen Ed	6
Total	18	Total	18
Senior Fall		Senior Spring	
Phys 3410	3	Phys 4400	2
Math 3710	3	Phys 3160 or 3170	3
Electives/Gen Ed	10	Electives/Gen Ed	9
Total	16	Phys 4990	1
		Total	15

Computational Physics Option Four-year Course Sequence

Starting Fall			
Freshman Fall		Freshman Spring	
Phys 2210	5	Phys 2220	5
Math 1210	4	Math 1220	4
Math 1200	1	CS 1410	4
Total	10	Total	13
Sophomore Fall		Sophomore Spring	
Phys 2300	3	Phys 3180 or 3300	3
Phys 2710	3	Math 2270	3
Math 2210)	4	Math 2280	3
Total	10	Total	9
Junior Fall		Junior Spring	
Phys 3410	4	Phys 3180 or 3300	3
Phys 3500	3	Phys 4400	2
Math 4610 (F even)	3	Math 4620 (S odd)	3
Total	10	Total	8
Senior Fall		Senior Spring	
Phys 3510	3	Phys 3540 or 4610	3
Math 3710	3	Phys 4990	1
CS 2420	4	Phys elective	3
Total	10	Total	7

Starting Spring			
Freshman Fall		Freshman Spring	
		Phys 2210	5
		Math 1210	4
		Math 1200	1
		CS 1410	4
		Total	14
Sophomore Fall		Sophomore Spring	
Phys 2220	5	Phys 3180 or 3300	3
Phys 2300	3	Math 2210	4
Math 1220	4	Math 2270	3
Total	12	Math 2280	3
		Total	13
Junior Fall		Junior Spring	
Phys 2710	3	Phys 3180 or 3300	3
Phys 3410	4	Phys 4400	2
Phys 3500	3	Math 4620 (S odd)	3
Math 4610 (F even)	3	Total	8
Total	13		
Senior Fall		Senior Spring	
Phys 3510	3	Phys 3540 or 4610	3
Math 3710	3	Phys 4990	1
CS 2420	4	Phys elective	3
Total	10	Total	7

Notes:

It is assumed that general education and other elective courses will bring the average up to 15 credit hours per semester.

Math 4610 and 4620 are offered in alternate years, so they may have to be postponed until the senior year.

Math 4610 has Math 2270 as a prerequisite, so Math 2270 cannot be postponed if 4610 is offered during the junior year.

CS 1400 is a prerequisite to all the CS course options, and CS 1030 is a prerequisite to 1400. Physics students may be able to place out of one or both.

CS 2450 or 2640 can substitute for CS 2420 if desired. All are offered F, S, and Su.

Physics of Materials Option Four-year Course Sequence

Starting Fall			
Freshman Fall		Freshman Spring	
Phys 2210	5	Phys 2220	5
Math 1210	4	Math 1220	4
Math 1200	1	Gen Ed	6
Gen Ed	5	Total	15
Total	15		
Sophomore Fall		Sophomore Fall	
Chem 1210	5	Chem 1220	5
Math 2210	4	Phys 3180	3
Phys 2300	3	Math 2280	3
Phys 2710	3	Elect/Gen Ed	4
Elect/Gen Ed		Total	15
Total	15		
Junior Fall		Junior Spring	
Phys 3510	3	Math 2270	3
Phys 3410	4	Phys 3540	3
Elect/Gen Ed	8	Phys 4200	3
Total	15	Elect/Gen Ed	6
		Total	15
Senior Fall		Senior Spring	
Math 3710	3	Phys 4990	1
Phys 3500	3	Phys 4610	3
Phys 4410	2	Elect/Gen Ed	8
Elect/Gen Ed	6	Total	12
Total	14		

Starting Spring			
Freshman Fall		Freshman Spring	
		Phys 2210	5
		Math 1210	4
		Math 1200	1
		Gen Ed	8
		Total Hours	18
Sophomore Fall		Sophomore Fall	
Phys 2220	5	Chem 1210	5
Math 1220	4	Phys 3180	3
Gen Ed	9	Math 2210	4
Total	18	Elect/Gen Ed	6
		Total	18
Junior Fall		Junior Spring	
Phys 2300	3	Math 2270	3
Phys 2710	3	Phys 4200	3
Phys 3410	4	Elect/Gen Ed	12
Chem 1220	5	Total	18
Math 2280	3		
Total	18		
Senior Fall		Senior Spring	
Math 3710	3	Phys 4990	1
Phys 3500	3	Phys 4610	3
Phys 3510	3	Phys 3540	3
Phys 4410	2	Elect/Gen Ed	8
Math 3710	3	Total	15
Elect/Gen Ed	1		
Total	15		

Can switch PHYS 4200 to Sophomore spring and PHYS 4410 to Junior fall (would probably also want to switch PHYS 3410 to Senior fall then).