

Example Sequence for the APPLIED PHYSICS Major

This table shows a possible sequence of courses for an applied physics major. Our course offerings vary year to year, however, and your actual sequence will depend on what is being offered. On the second page is the anticipated rotation of upper level courses for 2020-21 through 2022-23

APPLIED PHYSICS Example Schedule		
Year	Course	Credits in the major
1 st Year	PHYS 105 ^a (vccsPHY241)	4
	PHYS 106 (vccsPHY242)	4
	MATH 121 (vccsMTH273)	-
	MATH 122 (vccsMTH274)	-
	DATA 101	-
	TOTAL	8
Fall 2 nd Year	PHYS 211 ^a	3
	PHYS 317 ^a	3
	MATH elective ^b	3 or 4
Spring 2 nd Year	DATA 219	3
	PHYS elective ^c	1 to 4 (see note c)
Fall 3 rd Year	PHYS 384 ^d	4
	PHYS 491 or 499	1 to 3
Spring 3 rd Year	CPSC 420	3
	PHYS elective ^c	1 to 4 (see note c)
Fall 4 th Year	PHYS 482 ^a	2
Spring 4 th Year	PHYS elective ^c or 491 or 499	1 to 4 (see note c)
2rd through 4th Years Total		29 to 33
MAJOR TOTAL		37 to 41
a) Offered in fall		
b) Three (3) to four (4) credits are required from MATH 224, 200, 312, 325, 351, or 411		
c) Seven (7) or eight (8) credits are required from: PHYS201, 210, 283, 292, 320, 330, 471, or 472		
d) Offered in alternating years and/or based on demand. Actual timing of these courses may vary from what's shown in chart.		

For further information or detail, contact:

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Anticipated Rotation for Physics Courses Fall 2020 through Spring 2023

IMPORTANT Based on staffing and other factors, the rotation might change. It is critical that you meet with your physics major advisor each semester before registering for courses to ensure that your degree completion plan is solid.

REQUIRED COURSES IN PHYSICS

CRS	NAME	CR	ATR	PREREQ	F20	S21	F21	S22	F22	S23
211	Modern Physics	3		106						
317	Methods of Math...	3		106						
384	Advanced Lab	4	WI	211						
482	Seminar	2	SI	senior						
491	Independent Study	var	BTC	POI	planned with a supervising professor					
499	Internship	var	BTC		planned with external internship sponsor and supervising professor					

WI = Writing Intensive, SI = Speaking Intensive, BTC = Beyond the Classroom, POI = permission of instructor

ELECTIVE COURSES IN PHYSICS (7 or 8 credits of these needed for the major)

CRS	NAME	CR	ATR	PREREQ	F20	S21	F21	S22	F22	S23
201	Thermodynamics	3		106						
283	Electronics	4		106						
292	Optics	4		106						
320	Classical Mechanics	4		211,317						
330	E&M	4		211,317						