

Physics - Concentration A: Research (BS) Four-Year Plan

Physics, Concentration A: Research - Bachelor of Science 2022-23 Four-Year Plan

Freshman

First Term	Hours	Second Term	Hours
ENGL 110C		3 MATH 212	4
MATH 211		4 PHYS 261N, 231N, or 226N	4
CHEM 121N and CHEM 122N		4 CHEM 123N and CHEM 124N	4
Oral Communication		3 Philosophy and Ethics	3
Language & Culture I (May be waived; See requirement details)		0-3 Language & Culture II (May be waived; See requirement details)	0-3
		14-17	15-18

Sophomore

First Term	Hours	Second Term	Hours
MATH 312 or MATH 285		4 PHYS 319	3
PHYS 262N, 232N, or 227N		4 CS 150	4
ENGL 211C or ENGL 231C (Grade of C or better required)		3 MATH 307 or MATH 280	3
Impact of Technology		3 PHYS 120 or PHYS 309 or ECE 111*	1-2
Information Literacy and Research: CS 120G or CS 121G or OEAS 130G		3 Human Creativity	3
		17	14-15

Junior

First Term	Hours	Second Term	Hours
PHYS 355		3 PHYS 413	3
PHYS 303		3 PHYS 453*	3
PHYS 323		3 ASTP 313 or PHYS 411 or PHYS 415 or PHYS 416 or PHYS 417*	3
PHYS 425		3 MATH 316 or MATH 401 or MATH 421 or MATH 422	3

Literature		3 Human Behavior	3
		15	15
Senior			
First Term	Hours	Second Term	Hours
PHYS 420		3 PHYS 456*	3
PHYS 452		3 PHYS 454	3
PHYS 489W or PHYS 499W		1-3 ASTP 414 or PHYS 411 or PHYS 415 or PHYS 416 or PHYS 417*	3
Interpreting the Past		3 PHYS 490W or PHYS 499W	2-3
Upper-Division General Education Course (Option D)*		3 Upper-Division General Education Course (Option D)*	3
Elective (if needed)*		3	
		16-18	14-15

Total credit hours: 120-130

*The four-year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

*PHYS 120 and PHYS 420 are offered fall semester only. ASTP 313, PHYS 309, PHYS 453, and PHYS 456 are offered spring semester only.