

MAJOR IN HEALTH PHYSICS

Requirements Effective Spring 2025

Freshman

		AUCC	Credits
BZ 101 ¹	Humans and Other Animals (GT-SC2)	3A	3
CHEM 107	Fundamentals of Chemistry (GT-SC2)	3A	4
CHEM 108	Fundamentals of Chemistry Laboratory (GT-SC1)	3A	1
CO 150	College Composition (GT-CO2)	1A	3
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4
MATH 161	Calculus for Physical Scientists II (GT-MA1)	1B	4
Diversity, Equity, and Inclusion (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion)		1C	3
Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences)		3C	3
Electives			4
Total Credits			29

Sophomore

PH 121	General Physics I (GT-SC1)	3A	5
PH 122	General Physics II (GT-SC1)	3A	5
PHIL 110	Logic and Critical Thinking (GT-AH3)	3B	3
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities)		3B	3
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives)		3D	3
Electives			7
Total Credits			26

Junior

BMS 300	Principles of Human Physiology		4
CO 300 or 301B	Writing Arguments (GT-CO3)	2	3
	Writing in the Disciplines: Sciences (GT-CO3)		
ERHS 310	Basic Radiological Physics and Dosimetry I		3
ERHS 312	Basic Radiological Physics and Dosimetry II	4A	3
ERHS 450	Introduction to Radiation Biology		3
STAT 301	Introduction to Applied Statistical Methods		3
Program Electives - Select a minimum of 15 credits from the following:			15
BC 351	Principles of Biochemistry		
BMS 320	Virtual Laboratory in Physiology		
BUS 150	Business Computing Concepts and Applications		
BUS 205	Legal and Ethical Issues in Business		
BZ 120	Principles of Plant Biology (GT-SC1)	3A	
CHEM 245	Fundamentals of Organic Chemistry		
ERHS 313	Nuclear Instruments and Measurement Lab		
ERHS 332	Principles of Epidemiology		
ERHS 515	Non-Ionizing Radiation Safety		
ERHS 556	Monte Carlo Methods in Health Physics		
ERHS 570	Radioecology		

2 Major in Health Physics

JTC 300	Strategic Writing and Communication (GT-C03)	2	
JTC 301	Corporate and Professional Communication (GT-C03)	2	
LB 300	Specialized Professional Writing	2	
LIFE 220/LAND 220	Fundamentals of Ecology (GT-SC2)	3A	
MGT 305	Fundamentals of Management		
MIP 300	General Microbiology		
PSY 253	Human Factors and Engineering Psychology		
SPCM 200	Public Speaking		
WR 204/GR 204	Sustainable Watersheds (GT-SC2)	3A	
Total Credits			34
Senior			
ERHS 311	Basic Nuclear Measurements and Instruments		1
ERHS 400	Radiation Safety		3
ERHS 461	Introduction to Radiation Public Health	4B	3
ERHS 488	Internship--Health Physics	4C	7-10
Electives ²			14-17
Total Credits			31
Program Total Credits:			120

¹ BZ 101 is required unless a student has received a 4 or higher in AP Biology or IB Biology, or a passing CLEP score of 50+.

² Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level).