

B.S. Health Physics

The following courses are required in addition to completion of 8 of the 9 General Education Objectives for the B.S. degree (a minimum of 36 credits--see the General Education Requirements (<http://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/>) described in the Academic Information section of this catalog).

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3		3
Objective 4		6
Objective 5		8
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7		
Objective 8		
Objective 9		3
Total Credits		38

Major Requirements

Code	Title	Credits
BIOL 1101 & 1101L	Biology I and Biology I Lab (Partially satisfies General Education Objective 5)	4
BIOL 3301 & 3301L	Advanced Human Anatomy and Physiology 1 and Advanced Human Anatomy and Physiology 1 Lab	4
BIOL 3302 & 3302L	Advanced Human Anatomy and Physiology 2 and Advanced Human Anatomy and Physiology 2 Lab	4
CHEM 1102 & CHEM 1103	Essentials of Organic and Biochemistry and Essentials of Organic and Biochemistry Laboratory (Partially satisfies General Education Objective 5)	4
CHEM 1111 & 1111L	General Chemistry I and General Chemistry I Lab	5
CHEM 1112 & 1112L	General Chemistry II and General Chemistry II Lab	4
CS 1181	Computer Science and Programming I (Satisfies General Education Objective 7)	3
ENGL 3307	Professional and Technical Writing	3
HPHY 4416	Introduction to Nuclear Measurements	3
HPHY 4431	Radiation Physics I	3
HPHY 4432	Radiation Physics II	3
HPHY 4433	External Dosimetry	3

HPHY 4434	Internal Dosimetry	3
HPHY 4455	Topics in Health Physics I	2
HPHY 4456	Topics in Health Physics II	2
HPHY 4480	Health Physics Capstone Course	3
HPHY 4488	Advanced Radiobiology	3
MATH 1170	Calculus I	4
MATH 1175	Calculus II	4
MATH 2275	Calculus III	4
MATH 3350	Statistical Methods	3
PHYS 2211 & PHYS 2212	Engineering Physics I and Engineering Physics II	8
PHYS 2213 & PHYS 2214	Engineering Physics I Laboratory and Engineering Physics II Laboratory	2
NE 4451	Nuclear Seminar	1
Total Credits		82

Degree Totals

Code	Title	Credits
	Program Admission Requirements	0
	General Education	38
	Major Requirements (Required General Education credits removed)	67
	Free Electives	15
Total Credits		120

ISU Degree Requirements (<http://coursecat.isu.edu/undergraduate/degree requirements/>)

ISU General Education (<http://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/>)

Major Academic Plan (MAP) (<https://www.isu.edu/advising/maps/>)