

2026-2027 Catalog

Health Physics Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
NT 150	Internship Seminar [RE]	3		
NT 160	Nuclear Chemistry [RE]	5		
NT 170	Mechanical & Fluid Power Transmission [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
RPT 121	Radiation Monitoring [RE]	5		
RPT 131	Radiation Effects [RE]	5		
RPT 141	Radioactive Materials Handling [RE]	5		
RPT 211	Radiological Safety and Response [RE]	5		
RPT 222	Radiation Protection [RE]	5		
HPHYS 300	Radiation Physics I	5		
HPHYS 305	Radiation Physics II	5		
HPHYS 350	Health Physics Seminar	2		
HPHYS 400	External Dosimetry	5		
HPHYS 405	Internal Dosimetry	5		
HPHYS 415	Radiation Detection and Measurement & Lab	5		
Select 30 credits from the following:				
HPHYS 310	Nuclear Forensics	5		
HPHYS 315	Radiological and Nuclear Emergency Response	5		
HPHYS 320	Environmental Radioactivity	5		
HPHYS 325	Reactor Health Physics	5		
HPHYS 397	Special Studies Lecture	5		
HPHYS 398	Special Studies Lab	5		
HPHYS 410	Radiation Biology	5		
HPHYS 420	Medical Health Physics	5		
HPHYS 425	Nuclear and Radiological Regulatory Framework	5		
HPHYS 430	CHP Exam Preparation and Problem Solving	5		

Subtotal 125

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General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Quantitative/Symbolic Reasoning - 20 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
Humanities* - 10 credits:				
PHIL 305	Professional Ethics [H]	5		
Choose any course from this distribution		5		
Social & Behavioral Sciences* - select 10 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Choose any course from this distribution		5		
Mathematical & Natural Science* - 10 credits:				
BIOL& 175	Human Biology W/ Lab [M/S]	5		
ENVS 310	Environmental Issues [M/S]	5		

Subtotal 60
Total Credits Required 185

Note:

*Course selections must meet the distribution requirements for the BAS degree.

- Students must earn a minimum 2.5 grade in all Health Physics (HPHYS) 300- and 400-level courses.
- Required minimum 185 credits.
- Required minimum cumulative GPA 2.0.
- Minimum grade 2.0 for MATH&141 and MATH&142.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.