

# RADIATION PROTECTION

## CERTIFICATE

This degree map is based on the 2025-26 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress towards certificate completion. The time it takes to earn a certificate will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester.

### Sample 4-Year Plan

#### First Year

Fall Courses	Credits	Spring Courses	Credits
RASC 140 or 150	3	CHEM 117 or 122	4
CHEM 116 or 121	4	STAT 141	3
MATH 118 (or higher placement)	3		
Semester Total	10	Semester Total	7

#### Second Year

Fall Courses	Credits	Spring Courses	Credits
RASC 140 or 150	3	CHEM 491	3
PHYS 208 or 211	4	PHYS 209 or 212	4
Semester Total	7	Semester Total	7

#### Third Year

Fall Courses	Credits	Spring Courses	Credits
RASC 360	3	RASC 460	3
		RASC 410	3
		RASC 498	1
Semester Total	3	Semester Total	7

#### Fourth Year

Fall Courses	Credits	Spring Courses	Credits

## Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

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## Curriculum Checklist

### Required Courses (21 credits)

- \_\_\_ RASC 140 Radioecology (3)
- \_\_\_ RASC 150 Radiation Regulations (3)
- \_\_\_ RASC 360 Health Physics (3)\*
- \_\_\_ RASC 460 Applied Health Physics (3)\*
- \_\_\_ RASC 410 Radiation Detection Lab (3)\*
- \_\_\_ CHEM 491 Special Topics: Radio Biochemistry (3)\*
- \_\_\_ MATH 118 College Algebra or higher placement (3)

### Category A: Commonwealth Internship Courses (Choose one, 1 credits)

- \_\_\_ CHEM 498 Chemistry Internship (1)\*
- \_\_\_ RASC 498 Radiation Health Physics Internship (1)\*
- \_\_\_ PHYS 498 Physics Internship (1)\*

### Category B: Commonwealth Physics Courses (Choose one pathway, 8 credits)

- \_\_\_ PHYS 208 Introductory Physics 1 (4)
- \_\_\_ PHYS 209 Introductory Physics 2 (4)\*
- or
- \_\_\_ PHYS 211 General Physics 1 (4)\*
- \_\_\_ PHYS 212 General Physics 2 (4)\*

### Category C: Commonwealth Chemistry Courses (Choose one pathway, 8 credits)

- \_\_\_ CHEM 116 Physiological Chemistry 1 (4)
- \_\_\_ CHEM 117 Physiological Chemistry 2 (4)
- or
- \_\_\_ CHEM 121 General Chemistry 1 (4)
- \_\_\_ CHEM 122 General Chemistry 2 (4)\*

### Category D: Commonwealth Statistics Courses (Choose one pathway)

- \_\_\_ STAT 141 Intro Stat (3)
- or
- \_\_\_ CHEM 341 Quantitative Analysis (4)\* and CHEM 351 Biochemistry 1 (4)\*
- or
- \_\_\_ PHYS 310 Modern Physics (3)\* and PHYS 422 Thermodynamics (3)\*

### Recommended but not required:

- \_\_\_ SFMG 180 Hazardous Materials (HAZWOPER) (3)
- \_\_\_ BIOL 110 Principles of Biology I (4)
- \_\_\_ BIOL 180 Anatomy and Physiology I (5)

\*Denotes advanced coursework

Degree-seeking students can use the classes to count toward the required 42 credits of advanced coursework. Advanced coursework can be met in major courses, minor courses, free elective courses, and general education courses. Courses that meet this requirement are designated in Banner.

## Certificate Requirements

A minimum GPA of 2.0 in the major and overall are required.

A grade of C or better in all required courses.

## Campus Locations

- |                   |   |
|-------------------|---|
| <b>Bloomsburg</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input checked="" type="checkbox"/> Blended |