

# RADIATION HEALTH PHYSICS - PRE MED OPTION

This option is offered within the following major(s):

- Radiation Health Physics - College of Engineering (<http://catalog.oregonstate.edu/college-departments/engineering/school-nuclear-science-engineering/radiation-health-physics-bs-hbs/>)

Students in Radiation Health Physics can also pursue the Radiation Health Physics-Pre Med option in which they fulfill the requirements for the BS degree in Radiation Health Physics, as well as the course work expected for entrance into most medical schools.

**Option Code: 602**

First Year		Credits
BI 109	HEALTH PROFESSIONS: MEDICAL	1
CH 231 & CH 261	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231 <sup>1</sup>	5
CH 232 & CH 262	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232 <sup>1</sup>	5
CH 233 & CH 263	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233 <sup>1</sup>	5
COMM 111 or COMM 114	*PUBLIC SPEAKING <sup>1</sup> or *ARGUMENT AND CRITICAL DISCOURSE	3
CS 101 or CS 161	COMPUTERS: APPLICATIONS AND IMPLICATIONS or INTRODUCTION TO COMPUTER SCIENCE I	4
MTH 251	*DIFFERENTIAL CALCULUS <sup>1</sup>	4
MTH 252	INTEGRAL CALCULUS <sup>1</sup>	4
MTH 254	VECTOR CALCULUS I	4
NSE 114	INTRO TO NUCLEAR ENGINEERING AND RADIATION HEALTH PHYSICS I	3
NSE 115	INTRO TO NUCLEAR ENGINEERING AND RADIATION HEALTH PHYSICS II <sup>1</sup>	3
WR 121	*ENGLISH COMPOSITION <sup>1</sup>	3
	Credits	44

Second Year		Credits
BI 221 & BI 222 & BI 223	*PRINCIPLES OF BIOLOGY: CELLS and *PRINCIPLES OF BIOLOGY: ORGANISMS and *PRINCIPLES OF BIOLOGY: POPULATIONS	12
HHS 231	*LIFETIME FITNESS FOR HEALTH <sup>2</sup>	2
HHS 241	*LIFETIME FITNESS (or any PAC course) <sup>2</sup>	1-2
NSE 234	NUCLEAR AND RADIATION PHYSICS I	3
NSE 235	NUCLEAR AND RADIATION PHYSICS II	3
NSE 236	NUCLEAR RADIATION DETECTION AND INSTRUMENTATION	4
PH 211 & PH 212 & PH 213	*GENERAL PHYSICS WITH CALCULUS and *GENERAL PHYSICS WITH CALCULUS and *GENERAL PHYSICS WITH CALCULUS <sup>1</sup>	12
PHL 205	*ETHICS	4
PSY 201	*GENERAL PSYCHOLOGY	4
Perspectives Course <sup>2</sup>		3
	Credits	48-49

Third Year		Credits
BB 314	CELL AND MOLECULAR BIOLOGY	4
BI 231	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY	3
BI 241	INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY LABORATORY	2
BI 311	GENETICS	4
CH 331 & CH 332	ORGANIC CHEMISTRY and ORGANIC CHEMISTRY	8
CH 337	ORGANIC CHEMISTRY LABORATORY	4

H 425	FOUNDATIONS OF EPIDEMIOLOGY	3
NSE 481	RADIATION PROTECTION	4
PSY 202	*GENERAL PSYCHOLOGY	4
ST 351	INTRODUCTION TO STATISTICAL METHODS	4
WR 327	*TECHNICAL WRITING	3
Perspectives Course <sup>2</sup>		3
	Credits	46

Fourth Year		Credits
BB 450 & BB 451	GENERAL BIOCHEMISTRY and GENERAL BIOCHEMISTRY	7
H 445	*OCCUPATIONAL HEALTH	3
NSE 319	*SOCIETAL ASPECTS OF NUCLEAR TECHNOLOGY <sup>2</sup>	3
NSE 407	SEMINAR (in Radiation Health Physics - 3 terms)	3
NSE 415	NUCLEAR RULES AND REGULATIONS	2
NSE 435	RADIATION SHIELDING AND EXTERNAL DOSIMETRY	4
NSE 474	*NUCLEAR SYSTEMS DESIGN I	4
NSE 475	*NUCLEAR SYSTEMS DESIGN II	4
NSE 483	RADIATION BIOLOGY	3
NSE 488	RADIOECOLOGY	3
SOC 204	*INTRODUCTION TO SOCIOLOGY	3
Perspectives Course <sup>2</sup>		3
Synthesis Course <sup>2</sup>		3
	Credits	45
	Total Credits	183-184

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Baccalaureate Core Course (BCC)

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Writing Intensive Course (WIC)

1  
Required for entry into the professional program.

2  
Must be selected to satisfy the requirements of the baccalaureate core.

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