

Student: _____ PUID: _____ Catalog Term: _____

Additional Majors: _____ Minors: _____

Requirements (106-108 credits)

- ___ (4) BIOL 11000 Fundamentals of Biology I
- ___ (4) BIOL 11100 Fundamentals of Biology II
- ___ (4) BIOL 20300 Human Anatomy & Physiology
- ___ (4) BIOL 20400 Human Anatomy & Physiology
- ___ (4) CHM 11500 General Chemistry
- ___ (4) CHM 11600 General Chemistry
- ___ (3) COM 11400 Fundamental of Speech Communication
- ___ (4) ENGL 10600 First Year Composition
- ___ (3) _____ *English Selective – select from list*
- ___ (3) _____ *General Science or Radiological Health Sciences Selective – select from list*
- ___ (3) _____ *Health Physics Selective – select from list*
- ___ (3) _____ *Health Physics Selective – select from list*
- ___ (3) _____ *Math or Computer Science Selective – select from list*
- ___ (4) _____ *Math or Computer Science or General Science Selective - select from list*
- ___ (2) HSCI 10100 Introduction to Health Sciences Professions
- ___ (3) HSCI 20200 Essentials of Environmental, Occupational, and Radiological Health Sciences
- ___ (3) HSCI 31200* Radiation Science Fundamentals
- ___ (2) HSCI 31300* Principles of Radiation Detection & Measurement
- ___ (2) HSCI 51400* Radiation Instrumentation Laboratory
- ___ (3) HSCI 52600* Principles of Health Physics & Dosimetry
- ___ (3) HSCI 53400* Applied Health Physics
- ___ (3) HSCI 54000* Radiation Biology
- ___ (2) HSCI 57400* Medical Health Physics
- ___ (4-5) MA 16100 Plane Analytic Geometry & Calculus I or MA 16500 Analytic Geometry & Calculus I
- ___ (4-5) MA 16200 Plane Analytic Geometry & Calculus II or MA 16600 Analytic Geometry & Calculus II
- ___ (4) MA 26100 Multivariate Calculus
- ___ (3) NUCL 20000 Introduction to Nuclear Engineering
- ___ (2) NUCL 20500 Nuclear Engineering Undergraduate Laboratory I
- ___ (2) NUCL 30500 Nuclear Engineering Undergraduate Laboratory II
- ___ (4) PHYS 17200 Modern Mechanics
- ___ (3) PHYS 24100 Electricity & Optics
- ___ (1) PHYS 34000 Modern Physics Laboratory
- ___ (3) PHYS 34200 Modern Physics
- ___ (3) STAT 30100 Elementary Statistical Methods

Humanities Selectives – select from list (9 credits)

- ___ (3) _____
- ___ (3) _____
- ___ () _____

Electives (3-5 credits)

___ () _____ ___ () _____ ___ () _____ ___ () _____

***A grade of "C" or higher must be earned in HSCI 31200, 31300, 51400, 52600, 53400, 54000, and 57400.**

All students must complete 32 credits of 300 level or higher courses at Purdue for graduation.

120 credits required for Bachelor of Science degree

English Selective List

ENGL 23000 Great Narrative Works
ENGL 26600 World Literature: From The Beginnings To
1700 A.D.
ENGL 26700 World Literature: From 1700 A.D. To The
Present
ENGL 30400 Advanced Composition
ENGL 30600 Introduction To Professional Writing
ENGL 42000 Business Writing
ENGL 42100 Technical Writing

General Science Selective List

AT 57200 Human Error
CHM 22400 Introductory Quantitative Analysis
CHM 25500 Organic Chemistry
CHM 25501 Organic Chemistry Laboratory
CHM 25600 Organic Chemistry
CHM 25601 Organic Chemistry Laboratory
CHM 33300 Principles of Biochemistry
HSCI 34500 Introduction To Occupational and
Environmental Health Science
BIOL 41500 Introduction To Molecular Biology
BIOL 44400 Human Genetics
BIOL 54200 Animal Cell Culture
BIOL 51600 Molecular Biology Of Cancer
HK 44500 Principles of Epidemiology
HSCI 54700 Environmental Epidemiology
HSCI 55100 Health Effects of Non-ionizing Radiation
HSCI 55200 Introduction to Aerosol Science
HSCI 56000 Toxicology
HSCI 58000 Occupational Ergonomics
PHIL 27000 Biomedical Ethics
PHIL 29000 Environmental Ethics
PHIL 35000 Philosophy and Probability
PHYS 22000 General Physics
PHYS 22100 General Physics
PHYS 31000 Intermediate Mechanics
PHYS 36000 Quantum Mechanics
PHYS 55000 Introduction To Quantum Mechanics
PHYS 55600 Introductory Nuclear Physics
PHYS 56400 Introduction To Elements Particle Physics
PHYS 56500 Introduction To Elementary Particle Physics II

Health Physics Selective List

HSCI 39000 Radiological Emergency Management
HSCI 48500 Health Physics Internship
HSCI 54700 Environmental Epidemiology
HSCI 55100 Health Effects of Non-ionizing Radiation
HSCI 55200 Introduction to Aerosol Science
HSCI 59000 Public Health Law and Policy
ME 20000 Thermodynamics I
ME 27000 Basic Mechanics I
NRES 28000 Hazardous Waste Handling
NUCL 30000 Nuclear Structure and Radiation Interactions
NUCL 31000 Introduction to Neutron Physics
NUCL 35000 Nuclear Thermal-Hydraulics I
NUCL 35100 Nuclear Thermal-Hydraulics II
NUCL 50100 Nuclear Engineering Principles
NUCL 50300 Radioactive Waste Management
NUCL 50400 Nuclear Engineering Experiments
NUCL 51000 Nuclear Reactor Theory I

Math and Computer Science Selective List

CS 15800 C Programming
CS 15900 Programming Applications for Engineers
CS 18000 Programming I
CS 31400 Numerical Methods
CS 47800 Introduction to Bioinformatics
MA 26200 Linear Algebra and Differential Equations
MA 41600 Probability
MA 52700 Advanced Mathematics for Engineers and
Physicists I
MA 52800 Advanced Mathematics for Engineers and
Physicists II
PHYS 58000 Computational Physics
STAT 31100 Introductory Probability
STAT 51200 Applied Regression Analysis

Radiological Health Sciences Selective List

Any course on the Health Physics Selective List
HSCI 19000, 29000, 39000, 49000, 59000 - Special Topics
in Radiological Health Sciences
HSCI 57000 Introduction to Medical Diagnostic Imaging
HSCI 57200 Radiation Oncology Physics
HSCI 69000 Molecular Radiobiology
NUPH 41200 Diagnostic Imaging I
NUPH 41300 Diagnostic Imaging II
NUPH 41400 Nuclear Pharmacy Laboratory
NUPH 53000 Applied Nuclear Pharmacy
NUPH 55000 Introduction to Positron Emission Tomography

Humanities Selective List - select any course from the following subjects:

Anthropology (ANTH)
Art & Design (AD)
Classics (CLCS)
Communication (COM)
Dance (DANC)
Economics (ECON)
English (ENGL)
Foreign Languages & Literatures (FLL)
History (HIST)
Interdisciplinary Studies (IDIS)
Music (MUS)
Philosophy (PHIL)
Political Science (POL)
Psychology (PSY)
Sociology (SOC)
Theatre (THTR)

Name: _____

School of Health Sciences

Date: _____

Student I.D.: _____

Radiological Health Science - RADH

Minor Code: _____

120 Semester Hours

Radiological Health Science

Freshman Year - First Semester			Sem/Yr	Grade	Second Semester			Sem/Yr	Grade
(4)	BIOL 11000-Fundamentals of BIOL I	Fall only			(4)	BIOL 11100-Fundamentals of BIOL II			
						(BIOL 11000)	Spring only		
(4)	CHM 11500-General Chemistry I				(4)	CHM 11600-General Chemistry II			
	(CALC)					(CHM 11500)			
(3)	COM 11400 - Fund. Of Speech				(4)	ENGL 10600-Freshman Composition			
(2)	HSCI 10100-Intro to HSCI Professions	Fall only							
(4)	MA 165 (MA161)Plane Analytic GEOM & CALC I				(4-5)	MA 16600 (16200) -Plane Analytic GEOM & CALC II			
						(MA 16100/16500)			
(17)					[16]				

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Sophomore Year - Third Semester			Sem/Yr	Grade	Fourth Semester			Sem/Yr	Grade
(4)	BIOL 20300-Human ANAT & Physiology I	Fall only			(4)	BIOL 20400-Human ANAT & Physiology II			
						(BIOL 20300)	Spring only		
(3)	HSCI 20200-Essentials of EH, OH, +RH	Fall only			(3)	NUCL 20000 - Intro to Nuclear Engrng			
	(1 sem of BIOL & 1 sem of CHM)					(MATH 16200/16600 & PHYS 17200)			
(4)	MATH 26100 - Multivariate Calculus				(2)	NUCL 20500-Nucl Engr - Undergrad Lab 1			
						(NUCL 20000-may be concurrent)	Spring Only		
(4)	PHYS 17200- Modern Mechanics				(4)	Math/Comp Science/General Science Elective			
[15]					[13]				

Notes: All students must complete 32 hours
Of 300 level or higher courses at Purdue for graduation.

Notes: Responsibility for completing graduation requirements
is solely that of the student.

School of Health Sciences

Radiological Health Science - RADH

120 Semester hours

Junior Year - Fifth Semester			Sem/Yr	Grade	Sixth Semester			Sem/Yr	Grade
(3)	HSCI 31200*-Radiation Science Fund. (1 yr CALC+ PHYS 17200)	Fall only			(2)	HSCI 31300*-Principles of Rad. Detection.& Measurement (HSCI 31200)			
(2)	NUCL 30500-Undergrad Lab II (NUCL 20500)	Fall only			(2)	HSCI 51400*- Radiation Instr. Lab (HSCI 31200 or consent)			
(3)	PHYS 24100-Electricity and Optics				(3)	HSCI 54000*-Radiation Biology (HSCI 31200 & BIOL 11100)			
(3)	STAT 30100-Elem. Statistical Methods (College Algebra)				(3)	PHYS 34200-Modern Physics			
(3)	Humanities Selective				(3)	English Selective			
[14]					(3)	Humanities Selective			
					[16]				

Notes:

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Senior Year - Seventh Semester			Sem/Yr	Grade	Eighth Semester			Sem/Yr	Grade
(3)	HSCI 52600-Principles of HP and Dosimetry (HSCI 31200)	Fall Only			(3)	Gen Science or RHS Elective			
(3)	HSCI 53400*-Applied Health Physics (HSCI 31200)	Fall only			(3)	Humanities Elective			
(2)	HSCI 57400-Medical Health Physics (HSCI 31200, MA 16100/16500, PHYS 24100)	Fall only			(2)	Elective			
(1)	Physics 34000L-Modern Physics Lab				(3)	Health Physics Elective			
(3)	Elective				(3)	Math/Comp Science Elective			
(3)	Health Physics Selective								
[15]					[14]				

Notes: *A grade of "C" or higher must be earned in HSCI 312, 313,
514, 526, 534, 540, 574

Notes: