All students must complete 32 credits of 30000 level or higher courses at Purdue for graduation.

Must earn a grade of “C” or higher in HSCI 31200, HSCI 31300, HSCI 51400, HSCI 52600, HSCI 53400, HSCI 54000, and HSCI 57400.

An Ethics course (such as PHIL 11100 Ethics or PHIL 29000 Environmental Ethics) is highly recommended.
General Science Selective List
AT 57200 Human Error
BIOL 41500 Introduction To Molecular Biology
BIOL 44400 Human Genetics
BIOL 54200 Animal Cell Culture
BIOL 51600 Molecular Biology Of Cancer
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
HK 44500 Principles of Epidemiology
HSCI 34500 Introduction To Occupational and Environmental Health Science
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

HSCI Humanities, Behavioral/Social Sciences Selectives List - select any 10000-59999 course(s) 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)

Math-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 for HLPH
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

University Foundational Learning Outcomes List: https://www.purdue.edu/provost/initiatives/curriculum/course.html

RADH-HLPH 5/2016
# Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
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<td>MA 15400 or MA 15800</td>
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<td>*CHM 11600</td>
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<th>Prerequisite</th>
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<td>PHYS 34000</td>
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<td>*Humanities Sel.</td>
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* Satisfies a University Core Requirement.

**CC** Critical Courses - identified by the state of Indiana that a student must be able to persist and succeed.

~A minimum grade of C must be earned in HSCI 31200, 31300, 51400, 52600, 53400, 54000, and 57400.

Students must complete 32 credit hours of 30000 level or higher courses for graduation.

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion.