Major Requirements (90-91 credits)

___ (4) BIOL 20300 Human Anatomy & Physiology
___ (4) BIOL 20400 Human Anatomy & Physiology
___ (4) CHM 11500 General Chemistry
___ (4) CHM 11600 General Chemistry
___ (3) ____________________________ English Selective – select any 20000 level or above ENGL course
___ (2) HSCI 10100 Introduction to Health Sciences Professions
___ (3) HSCI 20100 Principles of Public Health Science [Fulfills Science, Technology & Society Core]
___ (3) HSCI 20200 Essentials of Environmental, Occupational, and Radiological Health Sciences
___ (3) HSCI 31200 Radiation Science Fundamentals (must earn a grade of “C” or higher)
___ (2) HSCI 31300 Principles of Radiation Detection & Measurement (must earn a grade of “C” or higher)
___ (2) HSCI 51400 Radiation Instrumentation Laboratory (must earn a grade of “C” or higher)
___ (3) HSCI 52600 Principles of Health Physics & Dosimetry
___ (3) HSCI 54000 Radiation Biology (must earn a grade of “C” or higher)
___ (3) HSCI 57000 Introduction to Medical Diagnostic Imaging (must earn a grade of “C” or higher)
___ (3) HSCI 57200 Radiation Oncology Physics (must earn a grade of “C” or higher)
___ (2) HSCI 57400 Medical Health Physics (must earn a grade of “C” or higher)
___ (4-5) MA 16200 Plane Analytic Geometry & Calculus II or MA 16600 Analytic Geometry & Calculus II (must earn a grade of “C” or higher)
___ (4) MA 26100 Multivariate Calculus
___ (4) MA 26200 Linear Algebra & Differential Equations
___ (4) PHYS 17200 Modern Mechanics (must earn a grade of “C” or higher)
___ (3) PHYS 24100 Electricity & Optics
___ (1) PHYS 25200 Electricity & Optics Laboratory
___ (1) PHYS 34000 Modern Physics Laboratory
___ (3) PHYS 34200 Modern Physics
___ (3) STAT 30100 Elementary Statistical Methods
___ (3) ____________________________ HSCI Humanities, Behavioral/Social Sciences Selective – select from HSCI list
___ (3) ____________________________ Math-Computer Science Selective – select from list
___ (3) ____________________________ Physics Selective – must be PHYS 30000 or higher (PHYS 31000 Intermediate Mechanics, PHYS 36000 Quantum Mechanics, and/or PHYS 55600 Introductory Nuclear Physics are suggested)
___ (3) ____________________________ Physics Selective – select any 30000 or above PHYS course
___ (3) ____________________________ Radiological Health Sciences Selective – select from list

Required Courses in Other Departments (24-26 credits)

___ (4) BIOL 11000 Fundamentals of Biology I [Fulfills 1 Science Core Course]
___ (4) BIOL 11100 Fundamentals of Biology II [Fulfills 1 Science Core Course]
___ (3) COM 11400 Fundamental of Speech Communication [Fulfills Oral Communication Core]
___ (4-3) ENGL 10600 First-Year Composition or ENGL 10800 Accelerated First-Year Composition [Fulfills Written Communication Core] and [Information Literacy Core]
___ (4-5) MA 16100 Plane Analytic Geometry & Calculus I or MA 16500 Analytic Geometry & Calculus I (must earn a grade of “C” or higher) [Fulfills Quantitative Reasoning Core]
___ (3) ____________________________ Behavior/Social Science Core] select course from University list
___ (3) ____________________________ Humanities Core] select course from University list

Electives (3-6 credits)

___ ( ) ____________________________ ( ) ____________________________ ( ) ____________________________ ( ) ____________________________

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

120 credits required for Bachelor of Science degree

Must earn a grade of “C” or higher in HSCI 31200, HSCI 31300, HSCI 51400, HSCI 54000, HSCI 57000, HSCI 57200, HSCI 57400; MA 16100/16200 or MA 16500/16600; and PHYS 17200.

An Ethics course (such as PHIL 11100 Ethics, PHIL 27000 Biomedical Ethics, or PHIL 29000 Environmental Ethics) is highly recommended for students pursuing the PRMP concentration.

5/2016
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 PRMP

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

University Foundational Learning Outcomes List: https://www.purdue.edu/provost/initiatives/curriculum/course.htm
### 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>
<th>Prerequisite</th>
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<td>4</td>
<td>*BIOL 11000&lt;sup&gt;CC&lt;/sup&gt;</td>
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<td>4</td>
<td>*BIOL 11100&lt;sup&gt;CC&lt;/sup&gt;</td>
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<td>4</td>
<td>*CHM 11500&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>MA 15400 or MA 15800 or ALEKS = 75</td>
<td>4</td>
<td>*CHM 11600&lt;sup&gt;CC&lt;/sup&gt;</td>
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<td>*COM 11400&lt;sup&gt;CC&lt;/sup&gt;</td>
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<td>4-3</td>
<td>*ENGL 10600 OR 10800&lt;sup&gt;CC&lt;/sup&gt;</td>
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<td>2</td>
<td>HSCI 10100&lt;sup&gt;CC&lt;/sup&gt; Fall only</td>
<td></td>
<td>5-4</td>
<td>~*MA 16200 or 16600&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>MA 16500 or 1610 = C-</td>
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<td>5-4</td>
<td>~*MA 16100 or 16500&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>ALEKS = 85</td>
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<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 2nd Year</th>
<th>Prerequisite</th>
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<td>*HSCI 20200&lt;sup&gt;CC&lt;/sup&gt; Fall only</td>
<td>3 credits in BIOL &amp; CHM</td>
<td>3</td>
<td>*HSCI 20100&lt;sup&gt;CC&lt;/sup&gt; Spring only</td>
<td>Classification of 03</td>
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<tr>
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<td>*MATH 26100&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>MA 16200 or 16600 = C-</td>
<td>4</td>
<td>*MA 26200</td>
<td>MA 26100 = C-</td>
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<tr>
<td>3</td>
<td>*PHYS 17200&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>MA 16100 or 16500 or ALEKS = 85</td>
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<td>*PHYS 24100</td>
<td>PHYS 17200</td>
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<td>3</td>
<td>*STAT 30100</td>
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<td>PHYS 25200</td>
<td>PHYS 24100 or may be taken concurrently</td>
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<td>HSCI Humanities Sel.</td>
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<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 3rd Year</th>
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<td>~HSCI 51400 Spring only</td>
<td>HSCI 31200</td>
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<td>~HSCI 31300</td>
<td>MA 16600 or 16200 &amp; PHYS 17200 or NUCL 20000</td>
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<td>~HSCI 54000 Spring only</td>
<td>BIOL 11100 &amp; HSCI 31200</td>
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<td>PHYS 34200</td>
<td>PHYS 24100</td>
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<td>Select any 20000 or above ENGL course</td>
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<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 4th Year</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>HSCI 52600 Fall only</td>
<td>HSCI 31200</td>
<td>3</td>
<td>~HSCI 57000 Spring only</td>
<td>HSCI 31200 &amp; MA 26200</td>
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<td>~HSCI 57400 Fall only</td>
<td>HSCI 31200 &amp; MA 26100 &amp; PHYS 241</td>
<td>3</td>
<td>~HSCI 57200 Spring only</td>
<td>HSCI 31200 &amp; MA 26100 &amp; PHYS 24100</td>
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<td>3</td>
<td>Physics Selective</td>
<td>PHYS 31000, 36000, or 55600 suggested</td>
<td>3</td>
<td>PHYS Selective</td>
<td>PHYS 31000, 36000, or 55600 suggested</td>
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<td>Select from University list</td>
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<td>RADH HSCI Sel.</td>
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<td>0-3</td>
<td>Elective</td>
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</table>

* Satisfies a University Core Requirement.

<sup>CC</sup> 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, HSCI 31300, HSCI 51400, HSCI 54000, HSCI 57000, HSCI 57200, HSCI 57400; MA 16100/16200 or MA 16500/16600; and PHYS 17200.

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.