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.

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.

5/2021
HSCI Humanities, Behavioral/Social Sciences Selectives List -
select any 10000-59999 course(s) from the following subjects:
American Sign Language (ASL)
Anthropology (ANTH)
Arabic (ARAB)
Art & Design (AD)
Chinese (CHNS)
Classics (CLCS)
Communication (COM)
Dance (DANC)
Economics (ECON)
English (ENGL)
French (FR)
German (GER)
Greek (GREK)
Hebrew (HEBR)
History (HIST)
Interdisciplinary Studies (IDIS)
Italian (ITAL)
Japanese (JPNS)
Korean (KOR)
Latin (LTN)
Music (MUS)
Philosophy (PHIL)
Political Science (POL)
Portuguese (PTGS)
Psychology (PSY)
Russian (RUS)
Sociology (SOC)
Spanish (SPAN)
Theatre (THTR)

Math-Computer Science Selective List
CS 15900  C Programming
CS 18000  Problem Solving & Object-Oriented Programming
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 and Safety
BIOL 41500  Introduction To Molecular Biology
BIOL 44400  Human Genetics
BIOL 51600  Molecular Genetics
BIOL 54200  Animal Cell Culture
CHM 22400  Introductory Quantitative Analysis
CHM 25500  Organic Chemistry
CHM 25501  Organic Chemistry Laboratory
CHM 25600  Organic Chemistry
CHM 25601  Organic Chemistry Laboratory
HSCI 31000  Imaging in Medicine
HSCI 34500  Introduction To Occupational and Environmental Health Sciences
HSCI 41500  Introduction to Nuclear and Radiological Source Security
HSCI 54700  Fundamentals of Epidemiology
HSCI 55100  Physical Agents in Environmental Health
HSCI 55200  Introduction to Aerosol Science
HSCI 56000  Toxicology
HSCI 58000  Occupational Biomechanics and 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
PUBH 40500  Principles of Epidemiology

University Foundational Learning Outcomes List: https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html

A student may elect the Pass / Not-Pass (P/NP) grading option for elective courses only, unless an academic unit requires that a specific departmental course/s be taken P/NP. Students may elect to take University Core Curriculum courses P/NP; however, some major Plans of Study require courses that also fulfill UCC foundational outcomes. In such cases, students may not elect the P/NP option. A maximum of 24 credits of elective courses under the P/NP grading option can be used toward graduation requirements. For further information, students should refer to the College of Health and Human Sciences P/NP Policy.

Students are encouraged to use this advising worksheet as a resource when planning progress toward completion of degree requirements. An Academic Advisor may be contacted for assistance in interpreting this worksheet. This worksheet is not an academic transcript, and it is not official notification of completion of degree or certificate requirements. The University Catalog is the authoritative source for displaying plans of study. The student is ultimately responsible for knowing and completing all degree requirements.
### Pre-Medical Physics Concentration
#### College of Health and Human Sciences
120 credits

**Fall 2021**

**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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<tbody>
<tr>
<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; MA 15400 or MA 15800 or ALEKS = 75</td>
<td></td>
<td>4</td>
<td>*CHM 11600&lt;sup&gt;CC&lt;/sup&gt;</td>
<td>CHM 11200 or 11500</td>
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| 3       | *COM 11400<sup>CC</sup> |              |         | 4              | *ENGL 10600 OR 10800<sup>CC</sup> | MA 16500 or 16100 = C-
| 2       | HSCI 10100 Fall only |              | 5-4     | ^*MA 16200 or 16600<sup>CC</sup> | MA 16500 or 16100 = C-

**5-4 MA 16100 or 16500<sup>CC</sup> ALEKS = 85**

**17-18**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 2nd Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 2nd Year</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>*HSCI 20200 Fall only</td>
<td>3 credits in BIOL &amp; CHM</td>
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<td>*HSCI 20100 Spring only</td>
<td>Classification of 03</td>
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<tr>
<td>4</td>
<td>*MATH 26100 MA 16200 or 16600 = C-</td>
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<td>*MA 26200</td>
<td>MA 26100 = C-</td>
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<td>4</td>
<td>^*PHYS 17200&lt;sup&gt;CC&lt;/sup&gt; 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></td>
<td>3</td>
<td>HSCI Humanities Sel.</td>
<td>Select from HSCI list</td>
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**14**

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<tr>
<th>Credits</th>
<th>Fall 3rd Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 3rd Year</th>
<th>Prerequisite</th>
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<td>*BIOL 20300&lt;sup&gt;CC&lt;/sup&gt; Fall only</td>
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<td></td>
<td>^*BIOL 20400&lt;sup&gt;CC&lt;/sup&gt; Spring only</td>
<td>BIOL 20300</td>
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<td>3</td>
<td>^*HSCI 31200 MA 16600 or 16200 &amp; PHYS 17200 or NUCL 20000</td>
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<td>2</td>
<td>^*HSCI 51400 Spring only</td>
<td>HSCI 31200</td>
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<tr>
<td>2</td>
<td>^*HSCI 31300 MA 16600 or 16200 &amp; PHYS 17200 or NUCL 20000</td>
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<td>3</td>
<td>^*HSCI 54000 Spring only</td>
<td>BIOL 11100 &amp; HSCI 31200</td>
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<td>3</td>
<td>PHYS 34200 PHYS 24100</td>
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<td>3</td>
<td>MA/CS Science Selective</td>
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<td>PHYS 34000 PHYS 24100 &amp; 34200 may be taken concurrently</td>
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<td>^*Humanities BSS Sel.</td>
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<td>3</td>
<td>English Selective</td>
<td>Select any 20000 or above ENGL course</td>
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**16**

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<tr>
<th>Credits</th>
<th>Fall 4th Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 4th Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HSCI 52600 Fall only</td>
<td>HSCI 31200</td>
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<td>^*HSCI 57000 Spring only</td>
<td>HSCI 31200 &amp; MA 26200</td>
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<td>2</td>
<td>^*HSCI 57400 Fall only HSCI 31200 &amp; MA 26100 &amp; PHYS 24100</td>
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<td>3</td>
<td>^*HSCI 57200 Spring only</td>
<td>HSCI 31200 &amp; MA 26100 &amp; PHYS 24100</td>
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<tr>
<td>3</td>
<td>Physics Selective PHYS 31000, 36000, or 55600 suggested</td>
<td></td>
<td>3</td>
<td>Physics Selective PHYS 31000, 36000, or 55600 suggested</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>^*Humanities Selective</td>
<td>Select from University list</td>
<td></td>
<td>Elective</td>
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<tr>
<td>3</td>
<td>RADH HSCI Selective</td>
<td>Select from list</td>
<td></td>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

**14**

* Satisfies a University Core Requirement.

<sup>CC</sup> Critical Course – a course that a student must be able to pass to persist and succeed in a particular major.

^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, and they cannot be taken as pass/no pass.

Students must complete 32 credit hours of 30000 level or higher courses at Purdue University 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.