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.

5/2020
**General Science Selective List**

AT 57200 Human Error and Safety  
BIOL 41500 Introduction To Molecular Biology  
BIOL 44400 Human Genetics  
BIOL 51600 Molecular Biology Of Cancer  
BIOL 54200 Modular Upper-Division Laboratory Course  
CHM 22400 Introductory Quantitative Analysis  
CHM 25500 Organic Chemistry  
CHM 25501 Organic Chemistry Laboratory  
CHM 25600 Organic Chemistry  
CHM 25601 Organic Chemistry Laboratory  
HSCI 34500 Introduction To Occupational and Environmental Health Sciences  
HSCI 54700 Fundamentals of Epidemiology  
HSCI 55100 Physical Agents in Environmental Health  
HSCI 55200 Introduction to Aerosol Science  
HSCI 56000 Toxicology  
HSCI 58000 Occupational Safety 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  

**Health Physics Selective List**

HSCI 39000 Radiological Emergency Management  
HSCI 41500 Introduction to Nuclear and Radiological Source Security  
HSCI 48500 Health Physics Internship  
HSCI 54700 Fundamentals of Epidemiology  
HSCI 55100 Physical Agents in Environmental Health  
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 Selective 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 & Literature (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 15900 C Programming  
CS 18000 Problem Solving and 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 HLPH**

Any course on the Health Physics Selective List  
HSCI 19000, 29000, 39000, 49000, or 59000 - Special Topics in Radiological Health Sciences  
HSCI 31000 Imaging in Medicine  
HSCI 57000 Introduction to Medical Diagnostic Imaging  
HSCI 57200 Radiation Oncology Physics  

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

RADH-HLPH 5/2020
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>*BIOL 11000 <strong>CC</strong></td>
<td>MA 15400 or MA 15800 or ALEKS = 75</td>
<td>4</td>
<td>*BIOL 11100 <strong>CC</strong></td>
<td>BIOL 11000</td>
</tr>
<tr>
<td>4</td>
<td>*CHM 11500 <strong>CC</strong></td>
<td>MA 162000 or 166000 <strong>CC</strong></td>
<td>4</td>
<td>*CHM 11600 <strong>CC</strong></td>
<td>CHM 11200 or 11500</td>
</tr>
<tr>
<td>3</td>
<td>*COM 11400 <strong>CC</strong></td>
<td>PE 18000 or MA 16100 or 16500 <strong>CC</strong></td>
<td>4-3</td>
<td>*ENGL 10600 OR 10800 <strong>CC</strong></td>
<td>MA 16500 or 16100 = C-</td>
</tr>
<tr>
<td>2</td>
<td>HSCI 10100 Fall only</td>
<td>ALEKS = 85</td>
<td>5-4</td>
<td>*MA 162000 or 166000 <strong>CC</strong></td>
<td>MA 16500 or 16100 = C-</td>
</tr>
<tr>
<td>5-4</td>
<td>*MA 16100 or 16500 <strong>CC</strong></td>
<td>ALEKS = 85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17-18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>
</thead>
<tbody>
<tr>
<td>4</td>
<td>*BIOL 20300 <strong>CC</strong> Fall only</td>
<td></td>
<td>4</td>
<td>*BIOL 20400 <strong>CC</strong> Spring only</td>
<td>BIOL 20300</td>
</tr>
<tr>
<td>3</td>
<td>*HSCI 20200 Fall only</td>
<td>3 credits in BIOL &amp; CHM</td>
<td>3</td>
<td>*HSCI 20100 Spring only</td>
<td>Classification of 03</td>
</tr>
<tr>
<td>4</td>
<td>*MA 26100 <strong>CC</strong></td>
<td>MA 162000 or 166000 <strong>CC</strong></td>
<td>3</td>
<td>NUCL 20000 Spring only</td>
<td>MA 162000 or 16600 <strong>CC</strong></td>
</tr>
<tr>
<td>4</td>
<td>*PHYS 17200 <strong>CC</strong></td>
<td>MA 16100 or 16500 <strong>CC</strong></td>
<td>2</td>
<td>NUCL 20500 <strong>CC</strong> Spring only</td>
<td>NUCL 20000 or may be taken concurrently</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALEKS = 85</td>
<td>1</td>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 3rd Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 3rd Year</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>^HSCI 31200 Fall only</td>
<td>MA 166000 or 162000 <strong>CC</strong> or PHYS 172000 or NUCL 20000</td>
<td>2</td>
<td>^HSCI 51400 Spring only</td>
<td>HSCI 31200</td>
</tr>
<tr>
<td>2</td>
<td>^HSCI 31300 Fall only</td>
<td>MA 16600 or 162000 or PHYS 1720000 or NUCL 20000</td>
<td>3</td>
<td>^HSCI 54000 Spring only</td>
<td>BIOL 11000 &amp; HSCI 31200</td>
</tr>
<tr>
<td>2</td>
<td>NUCL 30500 Fall only</td>
<td>NUCL 20500</td>
<td>3</td>
<td>PHYS 34200</td>
<td>PHYS 24100</td>
</tr>
<tr>
<td>3</td>
<td>*PHYS 24100</td>
<td>PHYS 172000</td>
<td>1</td>
<td>PHYS 34000</td>
<td>PHYS 24100 or 34200 may be taken concurrently</td>
</tr>
<tr>
<td>3</td>
<td>*STAT 30100</td>
<td></td>
<td>3</td>
<td>*Humanities BSS Core Selective</td>
<td>Select from University list Selective</td>
</tr>
<tr>
<td>3</td>
<td>HSCI Humanities Sel.</td>
<td>Select from HSCI list</td>
<td>3</td>
<td>English Selective</td>
<td>Select any 20000 or above ENGL course</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<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>
<td>3</td>
<td>^HSCI 53400 Spring only</td>
<td>HSCI 31200</td>
</tr>
<tr>
<td>2</td>
<td>^HSCI 57400 Fall only</td>
<td>HSCI 31200 &amp; MA 261000 &amp; PHYS 24100</td>
<td>4</td>
<td>MA/CS Science Selective</td>
<td>Select from list</td>
</tr>
<tr>
<td>3</td>
<td>MA/CS Selective</td>
<td>Select from list</td>
<td>3</td>
<td>General Science or RADH Sel.</td>
<td>Select from list</td>
</tr>
<tr>
<td>3</td>
<td>Health Physics Sel.</td>
<td>Select from list</td>
<td>3</td>
<td>*Humanities Core Selective</td>
<td>Select from University list Selective</td>
</tr>
<tr>
<td>3</td>
<td>Health Physics Sel.</td>
<td>Select from list</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Elective</td>
<td></td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Satisfies a University Core Requirement.

**CC** 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, 31300, 51400, 52600, 53400, 54000, and 57400, 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.