Student: ________________________________________ PUID: ___________________________ Catalog Term: _______

Additional Majors: __________________________________________________ Minors: _______________________________________________________________

Requirements (103-105 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
___ (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 54000* Radiation Biology
___ (3) HSCI 57000* Introduction to Medical Diagnostic Imaging
___ (3) HSCI 57200* Radiation Oncology Physics
___ (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
___ (4) MA 26200 Linear Algebra & Differential Equations
___ (3) ____________________________ Math or Computer Sciences Selective – select from list
___ (4) PHYS 17200* Modern Mechanics
___ (3) PHYS 24100 Electricity & Optics
___ (1) PHYS 25200 Electricity & Optics Laboratory
___ (3) ____________________________ Physics Selective – must be PHYS 30000 or higher **
___ (3) ____________________________ Physics Selective – must be PHYS 30000 or higher **
___ (1) PHYS 34000 Modern Physics Laboratory
___ (3) PHYS 34200 Modern Physics
___ (3) ____________________________ Radiological Health Sciences Selective – select from list
___ (3) STAT 30100 Elementary Statistical Methods

Humanities Selectives – select from list (9 credits)

___ (3) ____________________________
___ (3) ____________________________
___ (3) ____________________________

Electives (6-8 credits)

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

*A grade of “C” or higher must be earned in HSCI 31200, HSCI 51400, HSCI 54000, HSCI 57000, HSCI 57200, HSCI 57400; MA 16100/16200 or MA 16500/16600; and PHYS 17200.

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

120 credits required for Bachelor of Science degree

**Suggested physics selectives are PHYS 31000 Intermediate Mechanics, PHYS 36000 Quantum Mechanics, and/or PHYS 55600 Introductory Nuclear Physics.

Revised 5/2012
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

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 50300 Statistical Methods for Biology
STAT 51100 Statistical Methods
STAT 51200 Applied Regression Analysis

Radiological Health Sciences Selective List
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
AT 57200 Human Error

Humanities Selective List
- 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)

RHMP
revised 5/2012
<table>
<thead>
<tr>
<th>Freshman Year - First Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
<th>Second Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4) BIOL 11000-Fundamentals of BIOL I</td>
<td></td>
<td></td>
<td>(4) BIOL 11100-Fundamentals of BIOL II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) CHM 11500-General Chemistry I</td>
<td></td>
<td></td>
<td>(4) CHM 11600-General Chemistry II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2) HSCI 10100-Intro to HSCI Professions</td>
<td>Fall only</td>
<td></td>
<td>(4) ENGL 10600-Freshman Composition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4-5) MA 16100/16500-Plane Analytic Geom &amp; CALC I</td>
<td></td>
<td></td>
<td>(4-5) MA 16200/16600-Plane Analytic Geom &amp; CALC II (MA 16100/16500)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[14-15]</td>
<td></td>
<td></td>
<td>[16-17]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sophomore Year - Third Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
<th>Fourth Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) COM 11400-Fundamentals of Speech</td>
<td></td>
<td></td>
<td>(4) MA 26200-Lineal Algebra &amp; Diff Equations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) HSCI 20200-Essntls of RH, EH, + OH</td>
<td>(1 sem of BIOL &amp; 1 sem of CHM)</td>
<td>Fall only</td>
<td>(3) PHYS 24100-Electricity and Optics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) MA 26100-Multivariate Calculus</td>
<td></td>
<td></td>
<td>(1) PHYS 25200-Electricity and Optics Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4) PHYS 17200-Modern Mechanics</td>
<td>(MA 16200/16600)</td>
<td></td>
<td>(3) STAT 30100-Elem. Statistical Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Elective</td>
<td></td>
<td></td>
<td>(3) English Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[17]</td>
<td></td>
<td></td>
<td>[14]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Responsibility for completing graduation requirements is solely that of the student.
# School of Health Sciences

**Radiological Health Science - RHMP**

**Pre-Medical Physics Concentration**

**120 Semester Hours**

<table>
<thead>
<tr>
<th>Junior Year - Fifth Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
<th>Sixth Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4) BIOL 20300-Human ANAT &amp; Physiology I</td>
<td></td>
<td></td>
<td>(4) BIOL 20400-Human ANAT &amp; Physiology II</td>
<td>Spring only</td>
<td></td>
</tr>
<tr>
<td>(BIOL 20300)</td>
<td></td>
<td>Fall only</td>
<td>(BIOL 20300)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) HSCI 31200*-Radiation Science Fund.</td>
<td></td>
<td>Fall only</td>
<td>(2) HSCI 31300*-Principles of Rad. Detection &amp; Measurement (HSCI 31200)</td>
<td>Spring only</td>
<td></td>
</tr>
<tr>
<td>(1 yr CALC+ 1 yr PHYS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Math and Comp Sci Elective</td>
<td></td>
<td></td>
<td>(2) HSCI 51400-Radiation Instrumentation Lab</td>
<td>Spring only</td>
<td></td>
</tr>
<tr>
<td>(3) PHYS 30000 or higher PHYS Elective</td>
<td></td>
<td></td>
<td>(3) HSCI 54000*-Radiation Biology</td>
<td>Spring only</td>
<td></td>
</tr>
<tr>
<td>(3) Humanities Selective</td>
<td></td>
<td></td>
<td>(3) PHYS 34200-Modern Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[16]</td>
</tr>
<tr>
<td>Notes:</td>
<td>Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year - Seventh Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
<th>Eighth Semester</th>
<th>Sem/Yr</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) HSCI 52600-Principles of Health Physics and Dosimetry</td>
<td>Fall only</td>
<td></td>
<td>(3) HSCI 57000-Intro to Medical Diagnostic Imaging</td>
<td>Spring only</td>
<td></td>
</tr>
<tr>
<td>(2) HSCI 57400-Medical Health Physics</td>
<td>Fall only</td>
<td></td>
<td>(3) HSCI 57200-Radiation Oncology Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1) PHYS 3400-Modern Physics Lab</td>
<td></td>
<td></td>
<td>(3) Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Elective</td>
<td></td>
<td></td>
<td>(3) Humanities Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) Humanities Elective</td>
<td></td>
<td></td>
<td>(3) Rad. Health Sciences Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3) PHYS 30000 or higher PHYS Elective</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[15]</td>
</tr>
<tr>
<td>Notes:</td>
<td>Notes:</td>
<td>Suggested physics electives are PHYS 31000-Intermediate Mechanics, PHYS 36000-Quantum Mechanics and/or PHYS 55600-Introductory Nuclear Physics</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Revision Date: Jan 5, 2012