

Student: \_\_\_\_\_ PUID: \_\_\_\_\_ Catalog Term: \_\_\_\_\_

Additional Majors: \_\_\_\_\_ Minors: \_\_\_\_\_

**Requirements (106-108 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*
- \_\_\_ (3) \_\_\_\_\_ *General Science or Radiological Health Sciences Selective – select from list*
- \_\_\_ (3) \_\_\_\_\_ *Health Physics Selective – select from list*
- \_\_\_ (3) \_\_\_\_\_ *Health Physics Selective – select from list*
- \_\_\_ (3) \_\_\_\_\_ *Math or Computer Science Selective – select from list*
- \_\_\_ (4) \_\_\_\_\_ *Math or Computer Science or General Science 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 53400\* Applied Health Physics
- \_\_\_ (3) HSCI 54000\* Radiation Biology
- \_\_\_ (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
- \_\_\_ (3) NUCL 20000 Introduction to Nuclear Engineering
- \_\_\_ (2) NUCL 20500 Nuclear Engineering Undergraduate Laboratory I
- \_\_\_ (2) NUCL 30500 Nuclear Engineering Undergraduate Laboratory II
- \_\_\_ (4) PHYS 17200 Modern Mechanics
- \_\_\_ (3) PHYS 24100 Electricity & Optics
- \_\_\_ (1) PHYS 34000 Modern Physics Laboratory
- \_\_\_ (3) PHYS 34200 Modern Physics
- \_\_\_ (3) STAT 30100 Elementary Statistical Methods

**Humanities Selectives – select from list (9 credits)**

- \_\_\_ (3) \_\_\_\_\_
- \_\_\_ (3) \_\_\_\_\_
- \_\_\_ ( ) \_\_\_\_\_

**Electives (3-5 credits)**

\_\_\_ ( ) \_\_\_\_\_    \_\_\_ ( ) \_\_\_\_\_    \_\_\_ ( ) \_\_\_\_\_    \_\_\_ ( ) \_\_\_\_\_

**\*A grade of "C" or higher must be earned in HSCI 31200, 31300, 51400, 52600, 53400, 54000, and 57400.**

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

**120 credits required for Bachelor of Science degree**

### **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

### **General Science Selective List**

AT 57200 Human Error  
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

### **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

### **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 51200 Applied Regression Analysis

### **Radiological Health Sciences Selective List**

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

### **Humanities Selective List - select any course 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)