

# RADIATION HEALTH PHYSICS – 4 Year Plan

FIRST YEAR

*Academic Year: 2023-2024*

SECOND YEAR

Fall

Winter

Spring

Fall

Winter

Spring

**ENGR 100**

Engineering Orientation

F(3)

**ENGR 102**

Orientation II

W (3)

ENGR 102 Pre-Req &  
MTH 112 Co-Req

**ENGR 103**

Orientation III

S (3)

CH 231/261

**BI 221**

Principals of Biology

F (4)

**BI 222**

Principals of Biology

W (4)

**BI 223**

Principals of Biology

S (4)

MTH 111

**CH 231/261**

Chemistry

(5)

**CH 232/262**

Chemistry

(5)

**CH 233/263**

Chemistry

(5)

MTH 251

**NSE 234**

Nuclear & Rad. Phys I

F(3)

MTH 252  
NSE 234

**NSE 235**

Nuclear & Rad. Phys II

W(3)

**NSE 236**

Nuclear Radiation Detection  
& Instrumentation

F(3)

**MTH 251**

Differential Calc.

F,W,S (4)

**MTH 252**

Integral Calc.

F,W,S (4)

**MTH 254**

Vector Calc.

F,W,S (4)

**Perspectives**

F,W,S (3)

**HHS 231**

Lifetime Fitness for  
Health

F,W,S (2)

**Perspectives**

F,W,S (3)

**WR 121Z**

English Composition

F,W,S (4)

**COMM  
111Z/114**

Speech

(4/3)

**CS 101**

Computers

F,W,S (4)

**PH 201/211**

Physics

F,S (5/4)

**PH 202/212**

Physics

F,W (5/4)

**PH 203/213**

Physics

W,S (5/4)

**PAC**

F,W,S (1)

( ) The number within the parenthesis represent the credits of the course.

F, W,S: Represents the term the course is offered (Fall, Winter and Spring term respectively).

# RADIATION HEALTH PHYSICS

THIRD YEAR

*Academic Year: 2023-2024*

FOURTH YEAR

Fall

Winter

Spring

Fall

Winter

Spring

NSE 235  
**NSE 481**  
 Radiation Protection  
 F (4)

**ST 201**  
 Statistics I  
 F,W,S,U (3)

**ST 202**  
 Statistics II  
 (3)

**NSE 407**  
 Seminar  
 F,W,S (1)

**NSE 407**  
 Seminar  
 F,W,S (1)

**NSE 407**  
 Seminar  
 F,W,S (1)

BI 242  
**BI 231**  
 Intro to Human A&P  
 F,U (3)

**Elective**  
 Restrict. Elective  
 (3)

WR 121Z  
**WR 227Z**  
 Tech. Writing  
 (4)

**NSE 415**  
 Nuclear Rules &  
 Regulation  
 F (2)

NSE 481  
**NSE 483**  
 Radiation Biology  
 W (4)

**H 445**  
 Occupational Health  
 S (3)

**Elective**  
 Restricted  
 Health Elect  
 (3)

**Elective**  
 Restrict. Elective  
 (3)

**NSE 319**  
 Societal Aspects of Nucl. Tech.  
 S(3)

NSE 481  
**NSE 488**  
 Radioecology  
 F (3)

**NE 474**  
 Nuclear Sys. Design  
 W (4)

NSE 235  
NSE 481  
**NSE 435**  
 Rad. Shielding & Ext. Dosimetry  
 S (4)

**Elective**  
 Restricted  
 Health Elect  
 (3)

**Synthesis**  
 (3)

**Elective**  
 Restrict. Health Elect.  
 (3)

ST 201  
**H 425**  
 Epidemiology  
 F,W,S (3)

**Synthesis**  
 (3)

NSE 452  
NSE 474  
**NSE 475**  
 Nuclear Sys. Design II  
 S (4)

**Perspectives**  
 F,W,S (3)

**Perspectives**  
 F,W,S (3)

**Elective**  
 Restrict. Elective  
 (3)

**Elective**  
 Restrict. Health Elect.  
 (3)

**Elective**  
 Restricted Elect.  
 (3)

**Elective**  
 Restricted Elect.  
 (3)

# RADIATION HEALTH PHYSICS

## Pre-med track

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### RHP with Pre-Medical Track

**BI 109**  
Health  
Professions

S(1)

**ST 351**  
Statistical  
Methods

F,W,S (4)

**CH 331**  
Organic  
Chemistry

F(3)

**CH 332**  
Organic  
Chemistry

W(3)

**CH 337**  
Organic  
Chemistry Lab

F,S (4)

**BB 314**  
Cell and Molecular  
Biology  
F, W, S, U(4)

**BI 231**  
Anatomy

W(3)

**BI 241**  
Anatomy Lab

S (3)

**BB 450**  
General  
Biochemistry I  
F, W, U(4)

**BB 451**  
General  
Biochemistry II  
W, S(3)

**BI 311**  
Genetics

F, W, S, U(4)

**SOC 204**  
Intro to Sociology

F, W, S, U(3)

**PSY 202**  
General  
Psychology  
F, W, S, U(3)

#### NOTES:

1. CH 221 + CH 222+ CH 223 required for pre-med track.
2. Math pre-requirements for PH 201, PH 202, and PH 203 are different than PH 211, PH 212, and PH 213.
3. PH 211 + PH 212 + PH 213 required for pre-med track.
4. Can substitute ST 314 + 3 hours of free electives for ST 201 + ST 202.
5. Credits to graduate = 180.