

BACHELOR OF SCIENCE IN HEALTH PHYSICS & RADIATION SCIENCE PROGRAM 2007 or 2008 entry (Pre-rec in brackets)

| Year | Course | Course | Course | Course | Course | Course |
|------|--|--|---|--|---|--|
| 1-1 | MATH 1010U Calculus I | MATH 1850 Linear Algebra for Engineers (Coreq: MATH 1010) | PHY 1010U Physics I | CHEM 1010 Chemistry I | EDUC 1200 History of Science and Technology | EDUC 1050U Technical Communications (now COMM 1050U) |
| 1-2 | MATH 1020U Calculus II (MATH 1010 Calculus I) | BIOL 1840 Biology for Engineers | PHY 1020U Physics II (PHY 1010 Physics I) | CHEM 1020 Chemistry II (Chem 1010 Chem I) | ENGR 1200U Introduction to Programming | RADI 3530U Introduction to Radiological and Health Physics (now NUCL 1530) |
| 2-1 | MATH 2860U Differential Equations for Engineers (MATH 1020 Calc II, MATH 1850 Linear) | BIOL 2840 Cell and Molecular Biology (BIOL 1840 Biology for Engineers, or BIOL 1020 Biology II) | ENGR 2140 Problem Solving, Modeling and Simulation (MATH 1020 Calculus II, PHY 1020 Physics II, ENGR 1200 Programming) (Co-requisite: MATH | CHEM 2020U Intro. To Organic Chemistry (CHEM 1020 Chemistry II) | ENGR 2500 Introduction to Nuclear Physics (MATH 1020 Calculus II PHY 1020 Physics II) | BUSI 2000U Collaborative Leadership |
| 2-2 | MATH 2810 Adv Engineering Mathematics (MATH 1020 Calculus II) OR MATH 2070 Numerical Methods (MATH 1020 Calculus II, MATH 1850 Lin Algebra) | STAT 2800 Statistics and Probability for Engineers (MATH 1020 Calculus II) | ENVS 1000U Environmental Science | RADI 2100U Radiological and Health Physics (ENGR 2500 Intro to Nuc Physic) (co-rec RADI 2110) | RADI 2110U Health Physics Laboratory (ENGR 2500 Intro to Nuc Physic) (co-rec RADI 2100) | EDUC 1470U Impact of Science and Technology on Society (now SSCI 1470U) |
| 3-1 | RADI 4550 Radiation Detection and Measurement (ENGR 2500U Intro Nuc Physics, ENGR 2950 Radiation Protection or RADI 2100 Radiological & Health Physics/RADI 2110 Health Physics Laboratory) | HLSC 1200 Anatomy and Physiology I | ENGR 2790U Electric Circuits (PHY 1020 Physics II, MATH 1020 Calculus II) | RADI 3200 Medical Imaging (RADI 2100 Radiological & Health Physics or ENGR 2950 Radiation Protection) | ENGR 3860 Introduction to Nuclear Reactor Technology (ENGR 2500 Intro to Nuclear Physics, PHY 1020 Physics II) | |
| 3-2 | RADI 4220 Radiation Biophysics and Dosimetry (BIOL 2840 Cell & Molecular Bio, ENGR 2950 Radiation Protection OR RADI 2100/2110U Radiological & Health Physics/lab) | RADI 4440 Radioisotopes and Radiation Machines (RADI 2100 Radiological & Health Physics or ENGR 2950 Radiation Protection) | Basic Science or Engineering Elective | ENGR 3360 Engineering Economics | ENGR 3740 Scientific Instrumentation (ENGR 2790 Electric Circuits, STAT 2800 Statistics and Probability for Engineers) | |
| 4-1 | ENGR 4660 Risk Analysis Methods (STAT 2800 Statistics and Probability for Engineers) | RADI 4430 Industrial Applications of Radiation Techniques (RADI 4550 Radiation Detection & Measurement, ENGR 3740 Scientific Instrumentation) | ENGR 3570 Environmental Effects of Radiation (ENGR 2950 Radiation Protection or RADI 2100/RADI 2110) | RADI 4995 Thesis Project I (See Advisor) | Liberal Studies Elective | |
| 4-2 | Senior Science or Engineering Elective | RADI 4320 Therapeutic Applications of Radiation Techniques (Radiological and Health Physics RADI 2100 and Cell & Molecular Biology BIOL 2840) | Senior Science or Engineering Elective | RADI 4999 Thesis Project II (RADI 4995 and See Advisor) | Liberal Studies Elective | |