

## Health Physics and Radiation Science 2024-2025

Year	Course	Course	Course	Course	Course	Course
1-1	CHEM 1010U Chemistry I	CSCI 1040U Introduction to Programming for Scientists	MATH 1010U Calculus I	MATH 1850U Linear Algebra for Engineers	PHY 1010U Physics I	
1-2	BIOL 1011U Introductory Cell and Molecular Biology	CHEM 1020U Chemistry II (CHEM 1010U)	MATH 1020U Calculus II (MATH 1000U or MATH 1010U)	PHY 1020U Physics II (PHY 1010U or PHY 1030U, MATH 1000U)	PHY 2060U Modern Physics (Coreq: PHY 1020U, MATH 1020U)	
2-1	CSCI 2000U Scientific Data Analysis (CSCI 1030U or CSCI 1040U; MATH 1020U)	MATH 2015U Calculus III (MATH 1020U and (MATH 1850U or MATH 2050U))	PHY 2030U Mechanics I (MATH 1020U & (PHY 1010U or PHY 1030U))	RADI 2200U Reactors & Radiation Machines (PHY 2060U)	SSCI 1470U Impact of Science and Technology on Society	
2-2	EVNS 1000U Environmental Science	MATH 2060U Differential Equations (MATH 1020U & (MATH 1850U or MATH 2050U))	NUCL 2950U Radiation Protection (NUCL 2500U or ENGR 2500U)	PHY 2010U Electricity & Magnetism I (PHY 1020U & MATH 1020U)	STAT 2010U Statistics and Probability for Physical Science (MATH 1020U)	
3-1	NUCL 3860U Introduction to Nuclear Reactor Technology (PHY 1020U)	HLSC 1200U Human Anatomy & Physiology I	NUCL 3740U Scientific Instrumentation (ELEE 2790U, STAT 2800U)	RADI 3200U Medical Imaging (ENGR 2950U or NUCL 2950U or RADI 2100U)	RADI 4550U Radiation Detection & Measurement (ENGR 2500U or NUCL 2500U, ENGR 2950U or NUCL 2950U)	
3-2	Complementary Studies Elective	Engineering Science OR Science Elective	ENGR 3360U Engineering Economics	RADI 4220U Radiation Biophysics and Dosimetry (BIOL 1010U or BIOL 1011U, NUCL 2950U)	RADI 4440U Radioisotopes and Radiation Machines (ENGR 2950U or NUCL 2950U or RADI 2100U)	
4-1	Liberal Studies Elective	ESNS 4660U Risk Analysis Methods (STAT 2800U)	RADI 3570U Environmental Effects of Radiation (ENGR 2950U or NUCL 2950U)	RADI 4430U Industrial Applications of Radiation Techniques (ENGR 3740U or NUCL 3740U, RADI 4550U)	Senior Engineering Science OR Senior Science Elective	
4-2	Liberal Studies Elective	RADI 4320U Therapeutic Applications of Radiation Techniques (ENGR 2950U or NUCL 2950U or RADI 2100U)	Senior Engineering Science OR Senior Science Elective	Senior Engineering Science OR Senior Science Elective	Senior Engineering Science OR Senior Science Elective	