

BSc (Hons) in Health Physics and Radiation Science - 2009 Entry
(pre/co-req in brackets)

Year	Course	Course	Course	Course	Course	Course
1-1	CHEM 1010 Chemistry I	EDUC 1050 Technical Communications	EDUC 1200 History of Science and Technology	MATH 1010 Calculus I	MATH 1850 Linear Algebra for Engineers (Coreq: MATH 1010)	PHY 1010 Physics I
1-2	BIOL1840 Biology for Engineers	CHEM 1020 Chemistry II	ENGR 1200 Introduction to Programming	MATH 1020 Calculus II (MATH 1010)	PHY 1020 Physics II (PHY 1010)	RADI 3530 Introduction to Radiological and Health Physics (now NUCL 1530)
2-1	BIOL1840 Cell and Molecular Biology (BIOL 1010 or BIOL 1840)	CHEM 2020 Intro to Organic Chemistry (CHEM 1020)	ENGR 2140 Problem Solving, Modelling and Simulation (MATH 1020 , PHY 1020, ENGR 1200) (Coreq: MATH 2860)	ENGR 2500 Introduction to Nuclear Physics (MATH 1020 , PHY 1020)	ENGR 2790 Electric Circuits (MATH 1020 , PHY 1020)	MATH 2860 Differential Equations for Engineers (MATH 1020, MATH 1850)
2-2	EDUC 1470 Impact of Science and Technology on Society	ENVS 1000 Environmental Science	MATH 2810 Adv Engineering Mathematics (MATH 1020) <u>OR</u> MATH 2070 Numerical Methods (MATH 1020, MATH 1850)	RADI 2100 Radiological and Health Physics (ENGR 2500 or PHY 2060) (co-req RADI 2110)	RADI 2110 Health Physics Laboratory (ENGR 2500 or PHY 2060) (co-req RADI 2100)	STAT 2800 Statistics and Probability for Engineers (MATH 1020)
3-1	ENGR 3740 Scientific Instrumentation (ENGR 2790, STAT 2800)	ENGR 3860 Introduction to Nuclear Reactor Technology (PHY 1020)	HLSC 1200 Anatomy and Physiology I	RADI 3200 Medical Imaging (ENGR 2950 or RADI 2100)	RADI 4550 Radiation Detection and Measurement (ENGR 2500, ENGR 2950 or RADI 2100 and RADI 2110)	
3-2	ENGR 3360 Engineering Economics	RADI 4220 Radiation Biophysics and Dosimetry (BIOL 1840, ENGR 2950 or RADI 2100)	RADI 4440 Radioisotopes and Radiation Machines (ENGR 2950 or RADI 2100)	Basic Science or Engineering Elective	Complimentary Studies Elective (BUSI or Liberal)	
4-1	ENGR 3570 Environmental Effects of Radiation (ENGR 2950 or RADI 2100 and RADI 2110)	ENGR 4660 Risk Analysis Methods (STAT 2800 Statistics and Probability for Engineers)	RADI 4430 Industrial Applications of Radiation Techniques (ENGR 3740 RADI 4550)	RADI 4995 Thesis Design Project I (See Advisor)	Liberal Studies Elective	
4-2	RADI 4320 Therapeutic Applications of Radiation Techniques (ENGR 2950 or RADI 2100)	RADI 4999 Thesis Design Project II (See Advisor)	Senior Science or Engineering Elective	Senior Science or Engineering Elective	Liberal Studies Elective	

Shift in sequence from previous academic years