Bach	nelor of	Engineeri	ng in Nuclear	r Engineering	g - BEng (H	lons) 2007 &	2008 entry	(Prerequisite

Bachelor of Engineering in Nuclear Engineering - BEng (Hons) 2007 & 2008 entry (Prerequisites in brackets)								
Year	Course	Course	Course	Course	Course	Course		
1-1	EDUC 1200 History of Science and Technology (now liberal studies)	Technical Communications (now COMM 1050U)	ENGR 3200 Engineering Graphics and Design	MATH 1010 <b>Calculus I</b>	MATH 1850 Linear Algebra for Engineers (Coreq: MATH 1010)	PHY 1010 <b>Physics I</b>		
1-2	CHEM 1800 Chemistry for Engineers	ENGR 1200 Introduction to Programming	ENGR 3530 Safety and Quality Management (now NUCL 1530U)	BIOL 1840 Biology for Engineers OR ENVS 1000 Environmental Science	MATH 1020 <b>Calculus II</b> (MATH 1010 Calculus I)	PHY 1020 <b>Physics II</b> (PHY 1010 Physics I)		
2-1	BUSI 2000 Collaborative Leadership	ENGR 2140 Problem Solving, Modelling and Simulation (MATH 1020 Calc II, PHY 1020 Phys II, ENGR 1200 Intro Prog) (Coreq: MATH 2860)	ENGR 2220 Structure and Properties of Materials (CHEM 1800 Chem for Engineers or CHEM 1020 Chemistry II)	ENGR 2500 Introduction to Nuclear Physics (MATH 1020 Calculus II, PHY 1020 Physics II)	ENGR 2860 <b>Fluid Mechanics</b> (PHY 1010 Physics I MATH 1020 Calculus II)	MATH 2860U Differential Equations for Engineers (MATH 1020 Calc II, MATH 1850 Linear)		
2-2	EDUC 1470U Impact of Science and Technology on Society (now SSCI 1470U)	ENGR 2010 <b>Thermodynamic Cycles</b> (PHY 1010 Physics I, MATH 1020 Calculus II)	ENGR 2950 <b>Radiation Protection</b> (ENGR 2500 Intro to Nuclear Physics)	ENGR 3820 Nuclear Reactor Kinetics (ENGR 2500 Intro to Nuclear Physics, MATH 2860 Differential Equations)	MATH 2810 Adv Engineering Mathematics (MATH 1020 Calculus II) <u>OR</u> MATH 2070 Numerical Methods (MATH 1020 Calculus II, MATH 1850 Lin Algebra)	STAT 2800 Statistics and Probability for Engineers (MATH 1020 Calculus II)		
3-1	ENGR 2790 Electric Circuits (PHY 1020 Physics II, MATH 1020 Calculus II)	ENGR 3280 Fundamentals of Computer Aided Design Tools (ENGR 3200 Eng Graphics & Design, MATH 1850 Linear Algebra)	ENGR 3570 Environmental Effects of Radiation (ENGR 2950 Radiation Protection or RADI 2100 & RADI 2110 Radiological & Health Physics/Lab)	ENGR 3930 Heat Transfer (ENGR 2010 Thermodynamic Cycles, or ENGR 2320 Thermodynamics, or ENGR 2640 Thermodynamics & Heat Transfer)	ENGR 4640 <b>Nuclear Plant</b> <b>Operation</b> (PHY 1020 Physics II)	Liberal Studies Elective		
3-2	ENGR 3360 Engineering Economics (OR BUSI 1700 if you are mgmt see mgmt map for addition)	ENGR 3740 Scientific Instrumentation (ENGR 2790 Electric Circuits, STAT 2800 Statistics and Probability for Engineers)	ENGR 3380 Strength of Materials (ENGR 2220 Structure & Properties of Materials, PHY 1010 Physics I )	ENGR 4610 Corrosion for Engineers (CHEM 1800 Chemistry for Engineers or CHEM 1020 Chemistry II)	ENGR 4730 <b>Reactor Control</b> (MATH 2860 Differential Equations) (Coreq: ENGR 3740)	ENGR 4780 Nuclear Reactor Design (ENGR 2500,ENGR 2860, ENGR 3820, ENGR 3930, MATH 2070 or 2810)		
4-1	BUSI 3700 Strategic Management for Professionals	ENGR 4620 Radioactive Waste Management Design (ENGR 3570 Enviro Effects of Radiation, ENGR 3930 Heat Transfer, ENGR 4610 Corrosion for Engineers)	ENGR 4660 <b>Risk Analysis Methods</b> (STAT 2800 Statistics and Probability for Engineers)	ENGR 4700 Nuclear Plant Design and Simulation (ENGR 2010 Thermodynamic Cycles, ENGR 4780 NRD, ENGR 4640 NPO)	ENGR 4994 <b>Thesis Design Project I</b> (See Advisor)	Engineering Science Elective		
4-2	ENGR 4520 Nuclear Plant Safety Design (ENGR 4640 NPO, ENGR 4660 Risk Analysis Methods, ENGR 4700 Nuclear Plant Design & Simulation)	ENGR 4760 Ethics, Law and Professionalism for Engineers	ENGR 4810 <b>Nuclear Fuel Cycles</b> (ENGR 4610 Corrosion for Engineers, ENGR 4780 Nuclear Reactor Design)	ENGR 4998 <b>Thesis Design Project II</b> (ENGR 4994, See Advisor)	Engineering Design Elective	Engineering Science Elective		