BEng (Hons) in Nuclear Engineering - 2013 Entry (pre/co-req in brackets)

	ing (mons) in Nuc	ns) in Nuclear Engineering	(pre/co-req in brackets)			
Year	Course	ourse Course	Course	Course	Course	Course
1-1	COMM 1050 Technical Communications	chnical Engineering Graphics	MATH 1010 Calculus I	MATH 1850 Linear Algebra for Engineers (Coreq: MATH 1010)	PHY 1010 Physics I	Liberal Studies Elective
1-2	CHEM 1800 Chemistry for Engineers	Introduction to	ENVS 1000 Environmental Science	MATH 1020 Calculus II (MATH 1010)	NUCL 1530 Radiation and Nuclear Technologies	PHY 1020 Physics II (PHY 1010)
2-1	ENGR 2140 Problem Solving, Modelling and Simulation (MATH 1020, PHY 1020, ENGR 1200) (Coreq: MATH 2860)	m Solving, delling Simulation TH 1020, Y 1020, SR 1200) ENGR 2220 Structure and Properties of Materials (CHEM 1800)	ENGR 2500 Introduction to Nuclear Physics (MATH 1020, PHY 1020)	ENGR 2790 Electric Circuits (MATH 1020, PHY 1020, MATH 1850)	ENGR 2860 Fluid Mechanics (MATH 1020, PHY 1010)	MATH 2860 Differential Equations for Engineers (MATH 1020, MATH 1850)
2-2	ENGR 2010 Thermodynamic Cycles (MATH 1020, PHY 1010)	rnamic Cycles TH 1020, (FNGR 2500)	ENGR 3820 Nuclear Reactor Kinetics (ENGR 2500, MATH 2860)	MATH 2810 Adv Engineering Mathematics (MATH 1020) OR MATH 2070 Numerical Methods (MATH 1020, MATH 1850)	SSCI 1470 Impact of Science and Technology on Society	STAT 2800 Statistics and Probability for Engineers (MATH 1020)
3-1	ENGR 3570 Environmental Effects of Radiation (ENGR 2950)	ental Effects of diation Scientific Instrumentation (ENGR 2790	ENGR 3750 Integrated Engineering Laboratory (ENGR 2140, ENGR 2860, ENGR 2220)	ENGR 3930 Heat Transfer (ENGR 2010)	ENGR 4640 Nuclear Plant Operation (PHY 1020)	Complementary Studies Elective (BUSI or Liberal)
3-2	ENGR 3360 Engineering Economics	g	ENGR 4610 Corrosion for Engineers (CHEM 1800)	ENGR 4730 Reactor Control (MATH 2860)	ENGR 4780 Nuclear Reactor Design (ENGR 2500, ENGR 2860, ENGR 3820, ENGR 3930, MATH 2070 or 2810)	Liberal Studies Elective
4-1	BUSI 3700 Strategic Management for Professionals	Management Design	ENGR 4660 Risk Analysis Methods (STAT 2800)	NUCL 4994 (formerly ENGR 4994) Capstone I (All courses from 1st-3rd year completed)	NUCL 4700 (formerly ENGR 4700) Nuclear Plant Design and Simulation (ENGR 2010, ENGR 4640, ENGR 4780)	Engineering Science Elective
4-2	NUCL 4525 (formerly ENGR 4520) Nuclear Plant Safety Design (ENGR 4640, ENGR 4660, NUCL 4700)	Plant Safety esign GR 4640, GR 4660, ENGR 4760 Ethics, Law and Professionalism for Engineers	NUCL 4998 (formerly ENGR 4998) Capstone II (NUCL 4994)	NUCL 4810 (formerly ENGR 4810) Nuclear Fuel Cycles (ENGR 4610, ENGR 4780)	Engineering Design Elective	Engineering Science Elective