

Nuclear Engineering 2026-2027

Year	Course	Course	Course	Course	Course	Course
1-1	ENGR 1015U Introduction to Engineering	ENGR 1050U Engineering Communications and Technology Impacts (Credit restrictions: COMM 1050U/ SOCI 1470U)	MATH 1010U Calculus I	MATH 1850U Linear Algebra for Engineers	PHY 1010U Physics I	
1-2	CHEM 1800U Chemistry for Engineers (Credit restrictions: CHEM 1010U/CHEM 1020U/CHEM 1110U)	ENGR 1025U Engineering Design (ENGR 1015U, ENGR 1050U)	ENGR 1200U Introduction to Programming for Engineers (Credit Restriction: INFR 1100U)	MATH 1020U Calculus II (MATH 1010U)	PHY 1020U Physics II (PHY 1010U)	
2-1	ELEE 2790U Electric Circuits (MATH 1020U, MATH 1850U, PHY 1020U)	ESNS 2140U Problem Solving, Modelling & Simulation (MATH 1020U, CSCI 1040U or ENGR 1200U, ENSY 2210U or PHY 1010U)	MANE 2220U Structure & Properties of Materials (CHEM 1020U or CHEM 1800U)	MATH 2860U Differential Equations for Engineers (MATH 1020U) Coreq: MATH 1850U or MATH 2050U)	NUCL 2500U Interaction of Radiation with Matter (MATH 1020U, PHY 1020U)	NUCL 2860U Fluid Mechanics (MATH 1020U, PHY 1010U)
2-2	ENGR 2100U Computational Engineering Applications (ENGR 1200U, MATH 1850U, ELEE 2530U or MATH 2860U)	NUCL 2010U Thermodynamic Cycles (MATH 1020U, PHY 1010U)	NUCL 2240U Nuclear Engineering Fundamentals	NUCL 2950U Radiation Protection (NUCL 2500U)	STAT 2800U Statistics & Probability for Engineers (MATH 1020U)	Liberal Studies Elective
3-1	ESNS 3380U Strength of Materials (PHY 1010U, MANE 2220U)	NUCL 3820U Nuclear Reactor Physics (NUCL 2500U, MATH 2860U)	NUCL 3930U Heat Transfer (NUCL 2010U)	NUCL 4640U Nuclear Plant Operation (PHY 1020U, NUCL 2240U)	RADI 3570U Environmental Effects of Radiation (NUCL 2950U)	
3-2	ENGR 3360U Engineering Economics	ESNS 3750U Integrated Engineering Laboratory (ESNS 2140U, ESNS 2200U or NUCL 2860U, ESNS 3380U or ESNS 3385U)	NUCL 4610U Corrosion for Engineers (CHEM 1020U or CHEM 1800U, MANE 2220U)	NUCL 4780U Nuclear Reactor Design (NUCL 2500U, NUCL 2860U, NUCL 3820U, NUCL 3930U)	Liberal Studies Elective	
4-1	ENGR 4111U Capstone Systems Design I (Successful completion of all program-respective courses in years one through three)	NUCL 4670U Shielding Design (NUCL 2950)	NUCL 4700U Nuclear Power Plant Systems Design (NUCL 2240U, NUCL 4640U)	Engineering Elective	Engineering Elective	
4-2	ENGR 4222U Capstone Systems Design II (ENGR 4111U)	ENGR 4760U Ethics, Law and Professionalism for Engineers	NUCL 4525U Nuclear Plant Safety Design (NUCL 4640U, NUCL 4700U)	Engineering Elective	Engineering Elective	Engineering Elective