

Suggested Study Path for BENGEGU3 NRE 2019 Cohort – Advanced Standing I

Yr	Sem	Major Requirements ⁺						University Requirements [^]		CU's
1	A	MNE2112 ⁺ Thermodynamics (3)	MNE2110 ⁺ Engineering Materials (3)	MNE2016 ⁺ Engineering Graphics (3)		CSpC 1: MA1200 Calculus and Basic Linear Algebra I (3)	MNE2020 ⁺ Engineering Workshop Practice (0)	GE2410 English for Engineering (3)	GE 1 (3)	15/18 ⁺
	B	MNE2109 ⁺ Engineering Mechanics (3)	MNE2029 ⁺ Electrical & Electronic Principles I (3)	MNE2036 ⁺ Engineering Computing (3)	PHY3210 Modern Physics for Nuclear Technology (3)	CSpC 2: MA1201 Calculus and Basic Linear Algebra II (3)		GE1401 University English (3)		15/18 ⁺
	S								Reserved for missed courses	
2	A	MNE3118 Mechanics of Materials (3)	MNE3107 Principles of Nuclear Engineering (3)	MNE3111 Introduction to Nuclear Power Plant (3)	PHY3275 Radiation Protection and Dosimetry (3)	MA2177 ⁺ Engineering Mathematics and Statistics (3)	Major Elective 1 (3)			18
	B	MNE3122 Fluid Mechanics (3)	MNE3049 Control Principles (3)	MNE4112 Nuclear Materials (3)	PHY3230 Nuclear Radiation and Measurements (3)	MNE3119 Manufacturing Technology (3)		CCIV (3)		18
	S	Reserved for IAS or taking some Elective courses available /						Reserved any missed courses		
3	A	MNE4118 Project (3)	MNE4066 Professional Engineering Practice (3)	SEEM3101 Basic Methodologies and Tools for Risk Engineering (3)		MNE4010 Dynamics and Control (3)	Major Elective 2 (3)			15
	B	MNE4118 Project (3)	MNE4105 Nuclear Reactor Safety (3)	JC4231 Nuclear Reactor Physics (3)			MNE3121 Heat Transfer (3)		GE 2 (3)	15
	S							Reserved for missed courses		
() indicates number of credits								Total credits (minimum): 96/99/102		

⁺ Up to 6 credit units of core courses have been waived for students admitted with Advanced Standing I from the B2 level courses upon admission based on the academic background of students. Prerequisites which are not part of the Major Requirement are waived for students admitted with Advanced Standing. Students with courses waived in Year 1 are advised to take a minimum of 15 CU of courses each in semester A and semester B to balance their academic load.

[^] Students who are required to take the pre-requisite course PHY1201 in Year 1 Semester A but have exceeded the loading of 18 credit units in the semester should take "GE 1" and the English course in the following semesters/terms.

* MNE2020 should be taken in Year 1 during Semester A, Semester B, or Summer term depending on the allocation and availability of workshop training places.

Students are advised to consult their Academic Advisor in planning their own study paths. Please note that study path planning is both the privilege and responsibility of each student, so do it with care and diligence. Please refer to Student Handbook for further details.