

Model Study Path for BENGBDU3 BME 2025 Catalogue Term - Advanced Standing I

Yr	Sem	Major Requirements						University Requirements		CUs
1	A	PHY1201# General Physics I (3)	CHEM1200# Discovery in Biology (3)	BME2029+ Electrical and Electronic Principles (3)	BME2105+ Introduction to Biomedical Engineering (3)	MA1200 Calculus and Basic Linear Algebra I (3)		English (3)	GE1601 Whole-Person Development (1)	16/19+
	B	CHEM1300# Principles of General Chemistry (3)	CS1302+ Introduction to Computer Programming (3)	BME2122+ Biological Thermofluids (3)	BME2106+ Introduction to Cellular and Biomolecular Engineering (3)	MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		15/18+
	S							Reserve for missed courses		
2	A	BME2102+ Introduction to Biomechanics (3)	BME2104+ Tissue Engineering (3)	BME2036+ Engineering Computing (3)	BME3123 Materials for Biomedical Engineering (3)	BME2123 Mathematics for Biomedical Engineering (3)	BME4103 Bio-safety and Risk Assessment (3)			15/18+
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	BME2121+ Artificial Intelligence in Biomedical Engineering (3)	BME2103+ Medical Biotechnology in Imaging and Measurement (3)		GE1501 Chinese Civilisation – History and Philosophy (3)		15/18+
	S	Reserve for Summer Internship or taking some Elective courses available /						Reserve for missed courses		
3	A	BME4102 Final Year Project (3)	BME3104 Robotic Technology in Healthcare (3)		BME3121 Biomedical Signals and Systems (3)	Major Elective 1 (3)	Major Elective 2 (3)		GE 1 (3)	18
	B	BME4102 Final Year Project (6)	BME2066 Professional Engineering Practice (3)		BME4101 Biomedical Instrumentation (3)				GE 2 (3)	15
	S	Reserve for missed Elective courses /						Reserve for missed courses		
() indicates number of credits								Total credits (minimum):		100/103+

+ Up to 3 credit units of core courses have been waived for students admitted with Advanced Standing I from the B1 and 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 are required to take two courses from CHEM1200, CHEM1300 or PHY1201 as College/School-specified Courses. Students will be pre-registered into two of the three courses based on their academic background.

Note 1: Students may alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied and all graduation requirements could be met within the normative study period.

Note 2: Students can take Major electives from Year 2 depending on their overall study plan.