

Year 1

ENGR 1010 (4): Engineering Foundations 1	APMA 1090 (3): Single Variable Calculus I	CS 1010/11/12 (3): Intro to Programming	PHYS 1425 (4): Intro Physics 1 for Engineers	HSS Elective (3): (See website for list)
ENGR 1020 (3): Engineering Foundations 2	APMA 1110 (4): Single Variable Calculus II	CHEM 1410/11 (4): Intro Chemistry I & Lab	Math/Science Elective (3): (See website for list)	

Year 2

BME 2nd Year Split Core (3 each): <ul style="list-style-type: none"> BME 2000: Design/Discovery BME 2101: Physiology for Engineers I BME 2104: Cell & Molecular Biology BME 2220: Biomechanics BME 2315: Computational BME 		<i>Split core classes are offered in both Fall & Spring semesters, and should be distributed equally among the two semesters</i>	PHYS 2415 or ECE 2200 (4): Physics II	STS 2600 (3): Engineering Ethics	APMA 2120 (4): Multivariate Calculus If taken in the Fall of Year 2, take BME 2000, 2101, or 2104, and take BME 2220 and 2315 in the Spring of Year 2
			APMA 3100 or 3110 (3) Applied Stats & Probability <small>APMA 3100 or 3110 could be taken in the Fall of Year 3 if necessary.</small>	APMA 2130 (4) Ord. Differential Equations	

Year 3

BME 3rd Year Split Core (3 each): <ul style="list-style-type: none"> BME 2102: Physiology for Engineers II BME 3240: Biotransport BME 3310: BME Systems Analysis & Design 		BME 3080 (4) IDEAS I	Engineering Elective (3) (See website for list)	Technical Elective (3) (See website for list)	Unrestricted Elective (3): (See website for list)
		BME 3090 (4) IDEAS II	Engineering Elective (3) (See website for list)	HSS Elective (3): (See website for list)	

Year 4

BME 4063 (3): Capstone I	STS 4500 (3): STS & Eng Practice	BME Elective (3): (See website for list)	BME Elective (3): (See website for list)	Unrestricted Elective (3): (See website for list)
BME 4064 (3) Capstone II	STS 4600 (3): Ethics & Professional Resp.	BME Elective (3): (See website for list)	HSS Elective (3): (See website for list)	Unrestricted Elective (3): (See website for list)

Integrated Curriculum Map: B.S. in BME (for students matriculating in Fall 2025 & beyond)

