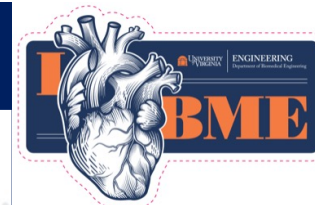


Pre-Med/Health Curriculum Map: B.S. in Biomedical Engineering



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	PSYC 1010 (as HSS) (3): Intro Psychology
ENGR 1020 (3): Engineering Foundations 2	APMA 1110 (4): Single Variable Calculus II	CHEM 1410/11 (4): Intro Chemistry I & Lab	CHEM 1620/21 (as math/science elective) (4): Intro Chemistry II & Lab	

Year 2

BME 2nd Year Split Core (3 credits 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>			APMA 2120 (4): Multivariate Calculus	CHEM 2410 (as technical elective) (3): Organic Chem I	SOC 1010 (as HSS) (3): Intro Sociology
					APMA 2130 (4): Ord. Differential Equations	CHEM 2420 (as unrestricted elective) (3): Organic Chem II	

Year 3

BME 3rd Year Split Core (3 credits each): <ul style="list-style-type: none"> BME 2102: Physiology for Engineers II BME 3240: <u>Biotransport</u> BME 3310: BME Systems Analysis & Design 		BME 3080 (4): IDEAS I	STS 2600 (3): Engineering Ethics	CHEM 2311 (1): Organic Chem Lab I	APMA 3100 or 3110 (3): Applied Statis & Probability
		BME 3090 (4): IDEAS II	Engineering Elective (3): (See website for list)	CHEM 2321 (1): Organic Chem Lab 11	PHYS 2415 or ECE 2200 (4): Physics II

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)	HSS Elective (3): (See website for list)	
BME 4064 (3) Capstone II	STS 4600 (3) Ethics & Professional Resp.	BME Elective (3): (See website for list)	Engineering Elective (3): (See website for list)	Unrestricted Elective (3): (See website for list)	Unrestricted Elective (3): (See website for list)

Pre-Health Requirements (that are in addition to BME requirements):

- 2 semesters of Chemistry and associated Labs (fulfilled by CHEM 1410, 1411, 1620, & 1621)
- 2 semesters of Organic Chemistry and their associated Labs (fulfilled by CHEM 2410, 2411, 2420, & 2421)
- 2 semesters of Biology lecture and Lab (fulfilled by BME 2101, 2104, 2102, and 3080/3090)
- One semester of introductory psychology & sociology (fulfilled by PSYC 1010 and SOC 1010): can take as 2 of 3 HSS electives
- 1 or 2 semesters of English (most schools accept STS 2600, STS 4500, and STS 4600)

Explaining the BME curriculum to medical schools:

Ask your primary BME recommendation letter writer to include as part of the overall letter the Medical School Explanation Appendix (found under the Pre-Med in BME section on the B.S. BME website).

When to take Organic Chemistry and the MCAT?

We recommend you take the MCAT soon after completing Psychology, Sociology, BME 2101, BME 2104, and BME 2102; and after the two Organic Chemistry Lectures. Note how this map schedules the Lectures in the 2nd year, saving the Labs for the 3rd year, giving flexibility for when you choose to take the MCAT or related admissions tests.