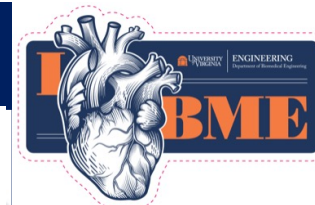


Pre-Med/Health Curriculum Map: B.S. in Biomedical Engineering



Year 1

ENGR 1010: Engineering Foundations 1	APMA 1110: Single Variable Calculus II	CS 1010/11/12: Intro to Programming	PHYS 1425: Intro Physics 1 for Engineers	PSYC 1010 (as HSS) Intro Psychology
ENGR 1020: Engineering Foundations 2	APMA 2120: Multivariate Calculus	CHEM 1410/11: Intro Chemistry I & Lab	CHEM 1620/21 (as math/science elective): Intro Chemistry II & Lab	

Year 2

BME 2nd Year Split Core: <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 2130 Ord. Differential Equations	PHYS 2451 or ECE 2200: Physics II	SOC 1010 (as HSS) Intro Sociology
		APMA 3100 or 3110 Applied Statist & Probability	CHEM 2410 (as technical elective) Organic Chem I	CHEM 2420 (as unrestricted elective) Organic Chem II

Year 3

BME 3rd Year Split Core: <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 IDEAS I	STS 2600: Engineering Ethics	CHEM 2411 Organic Chem Lab I	Unrestricted Elective: (See website for list)
	BME 3090 IDEAS II	Engineering Elective (See website for list)	CHEM 2421 Organic Chem Lab 11	

Year 4

BME 4063: Capstone I	STS 4500 STS & Eng Practice	BME Elective: (See website for list)	BME Elective: (See website for list)	HSS Elective (See website for list)
BME 4064 Capstone II	STS 4600 Ethics & Professional Resp.	BME Elective: (See website for list)	Engineering Elective (See website for list)	Unrestricted Elective: (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 on the BME Student Support Collab site).

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.