

Biomedical Engineering BS (124 hours)

Effective 2015-2016

NAME	PID	Optional 2nd Major or Minor
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FOUNDATIONS

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
	1. _____	MATH 231#	(1 hr.)
	2. _____		
	3. _____		
	4. _____		

* Through Level 3

APPROACHES

Phys. and Life Sciences (PL/PX)	Social and Behavioral Sciences**	Humanities/Fine Arts
CHEM101# CHEM 101L#	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
BIOL 101#	Soc Sci./Hist. Analysis (SS/HS):	Literary Arts (LA):
BIOL 101L#	Soc Sci./Hist. Analysis (SS/HS):	Phil. Reasoning (PH):

** From at least 2 departments.

CONNECTIONS

Communication Int. (CI)	Quant. Int. (QI) or 2 nd Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
BIOL 101L#	MATH 232#	BMME 698	
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)

MAJOR/MINOR/ELECTIVES

Additional Requirements # (10 courses)	MAJOR REQUIREMENTS ♦ (15 courses) Core Requirements		Specialty Electives (4 courses)			
COMP 116 or BMME 201 (3 hrs)	BMME 150 (3)	BIOL 202 (4)	Four from the following: Any BMME >400, or PHYS 401, or ENVR452/GEOL560/ MASC 560/PHYS 660			
CHEM 101 CHEM 101L	BMME 160 (3)	BIOL 252 (3) BIOL 252L (1)				
CHEM 102 CHEM 102L	BMME 210 (2)	MATH 528 (3)				
PHYS 116 or 118	BMME 310 (2)	BMME 350 (4)				
PHYS 117 or 119	BMME 341, or 455, or 475 (3) ##	BMME 351 (4)				
BIOL 101 BIOL 101L	BMME 410 (3)	STOR 435 or 455 (3)				
MATH 231	BMME 465 (4)	# In order to complete the BMME major, students should complete all marked courses (incl. PL, QR, QI) prior to the beginning of Junior year. Please consider course prerequisites when planning. ## After fulfilling this requirement, may take additional courses from the list as biomedical specialty electives.				
MATH 232	BMME 697 (3)	♦ Students must earn a C (not C-) in at least 18hrs of Major core. "Additional Requirements" and "Specialty Electives" do not count towards hours of "C." See "Notes on BME track" on second page.				
MATH 233	BMME 698 (3)	--Students may declare the biomedical and health sciences engineering major as early as their first year. However, students who wish to complete the biomedical and health sciences engineering major must apply for admission to the program. Admission to the university does not guarantee admission to the program. Admission to the program is granted to rising sophomores, and students will apply in the spring or summer of their first year. Rising juniors may also apply, but admission to rising juniors will only be granted on a limited basis if space is available. Students who are not accepted to the program must select a different major. In order to apply, students must complete core courses in math and science. More information about this process is available on the department Website.				
MATH 383 MATH 383L						

Remaining courses after this term: ____ Foundations _____ ____ Approaches _____ ____ Connections _____ ____ Supplemental _____ ____ (hrs C _____) _____ ____ (hrs C _____) _____ ____ (hrs C _____) _____ ____ Requirements subtotal _____ ____ Total _____	Hours to be deducted: Repeated courses _____ HSFL _____ Online courses > 24 _____ Other _____ Professional School > 24 _____ Hours in subject (BA) >45 _____ Total _____	Hours Tally: Hours to date: _____ Hours in progress _____ Pending Study Abroad* _____ Subtotal _____ Hours deducted _____ Hours after this term _____ Hours remaining to grad _____ Semesters left _____ <i>*Pending study abroad hours may differ from hours earned.</i>	Notes:
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This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps

Additional Notes on BME Track:

Notes on Courses

1. Pre-med students should take CHEM 241, 241L, 261, 262, 262L. Please note that starting in Spring 2015, the biochemistry material covered in CHEM 430 will be part of the MCAT exam. If a student takes CHEM 241, 241L, 261, 262, 262L courses as well as the other required Chemistry courses in the curriculum, he or she can get a minor in Chemistry.
2. It is recommended that students get additional experience outside of class by working in a research lab or in industry. BMME 395 (research) may be taken repeatedly for credit up to the University maximum of 12 research hours of any type. Students should consult with the Director of Undergraduate Studies for information about BMME 395 requirements. Please note that BMME 395 does not count toward your graduation requirements for this major.

April 25, 2014