

**Biomedical and Health Sciences Engineering BS (124 hours) Effective 2017**

<b>NAME</b>	<b>PID</b>	<b>Optional 2<sup>nd</sup> Major or Minor</b>
-------------	------------	---

**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
CHEM 101#+ 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 <sup>nd</sup> 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 (excluding 691H or 692H)			
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, 405, 455, 475, or 505 (3) ##	BMME 351 (4)				
BIOL 101 BIOL 101L	BMME 410 (3)	STOR 435 or 455 (3)				
MATH 231+	BMME 465 (4)	♦ Students must earn a C (not C-) in at least 18 hrs of major core. "Additional Requirements" and "Specialty Electives" do not count towards hours of "C." See "Notes on BMHE track" on reverse of worksheet				
MATH 232+	BMME 697 (3)	# In order to complete the BMHE major, students should complete all marked courses (incl. PL, QR, QI) prior to the beginning of Junior year. Please consider course prerequisites when planning.				
MATH 233	BMME 698 (3)	## After fulfilling this requirement, may take additional courses from the list as biomedical specialty electives.				
MATH 383 MATH 383L		❖ Students cannot enroll in BMME courses until they are admitted to the program. +Students must earn a C or better (C- for ENGL 105) in these core courses in math and science before applying for admission to BMHE. Students may declare the BMHE major as early as their first year. However, students who wish to complete the major must apply for admission to the program. Admission to the university does not guarantee admission to the program. Students should plan to apply during their first year. Students who are not accepted to the program must select a different major. More information about this process is available on the department Website.				

<b>Remaining courses after this term:</b> ___ Foundations _____ ___ Approaches _____ ___ Connections _____ ___ Supplemental _____ _____ (hrs C _____) _____ (hrs C _____) _____ (hrs C _____) Requirements subtotal _____ _____ <b>Total</b> _____	<b>Hours to be deducted:</b> Repeated courses _____ HSFL _____ Online courses > 24 _____ Other _____ Professional School > 30 _____ Hours in subject (BA) > 45 _____ Total _____	<b>Hours Tally:</b> 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>	<b>Notes:</b>        
--	---	---	---

**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 BMHE Track:**

### **Notes on Courses**

1. Pre-med students should take CHEM 241, 241L, 261, 262, 262L and 430. Pre-med students may want to consider 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 only once. 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.
3. In order to apply, students must complete core math and science courses, as indicated on the form. Specifically, the following courses must be completed with a C or better: CHEM 101 and 101L, MATH 231, MATH 232, PHYS 116 or 118. ENGL 105 must be completed with a C- or better. Students should plan to apply during the fall, spring or summer of their first year. Rising juniors may also apply, but admission to those students will be reviewed on a limited basis if space is available.

May 2, 2017