B. S. E. in **Bioengineering** (128 credits) Fall 2017 Catalog

Sample Course Sequence (Full-time students, 4-year, 11-semester plan, Fall, Winter, and Summer terms)
This Sample Course Sequence sheet shows ***only one example*** of how courses may be scheduled. Some courses may be taken before or after the semester they are listed, provided course Pre-Requisites <link> have been met.

Semester	Course	Prerequisites	Co-requisites
FALL – 1	CHEM 134 with Lab (4 credits)	One year of HS chemistry	MATH 105 or higher
14 credits	ENGR 126 with Lab (2)	Placement in MATH 090 or higher	
	MATH 115 (4)	Placement into MATH 115	
	BIOL 103 with Lab (4)		
Winter	CHEM 136 with Lab (4)	CHEM 134	
13 credits	MATH 116 (4)	MATH 115	
	ENGR 100 with Lab (2)	MATH 105 or higher	
	COMP 105 (3)	Placement into COMP 105	
Summer	MATH 205 (3)	MATH 116	
7 credits	BIOL 140 with Lab (4)		CHEM 134
FALL – 2	MATH 216 (3)	MATH 205	
12 credits	MATH 217 (2)	MATH 116	
	PHYS 150 with Lab (4)	MATH 115 - recommended	MATH 115
	ENGR 250 (3)	CHEM 134	CHEM 136, MATH 115
Winter	PHYS 151 with Lab (4)	PHYS 150	MATH 116
14 credits	ENGR 216 (2)	ENGR 100	ENGR126, MATH 216, 217
	ME 230 (4)	MATH 116, CHEM 134, PHYS 150	
	ME 265 (4)	PHYS 150	ENGR 250, MATH 205
Summer	COMP 270 (3)	COMP 105 and 35 credits completed	
6 credits	ECON 202 or ECON 201 (3)		
FALL – 3	BENG 325 (4)	ENGR 216, ME 230 & ME 265/345	
15 credits	ECE 305 with Lab (4)	PHYS 151, MATH 205	MATH 217
	BENG 370 (4)	MATH 216, ME 265/345	
	DDC –GEHA or GESB (3)		
Winter	DDC –GEHA or GESB (3)		
15 credits	BENG 375 (4)	ENGR 250, BIOL 140	
	BENG 351 with Lab (4)	MATH 216, ECE 305, BIOL 103, BIOL 140, & ENGR 216	
	*Design or Technical Elective (4)	Varies with specific course	
Summer			
3 credits	DDC -GEHA or GESB (3)		
FALL – 4	BENG 364 with Lab (3)	MATH 116	
15 credits	BENG 381 with Lab (4)	BENG 325, BIOL 140, CHEM 136	
	*BENG Design Elective (4)	Varies with specific course	
	*Design or Technical Elective (4)	Varies with specific course	
Winter	BENG 4671 (4)	BENG 325, 351, 370, 375, 364	
14 credits	*IMSE 421 (D/T Elect. **and** GEIN)(3)	Knowledge of statistics, 55 credits	
	DDC- GEHA or GESB **and** GEIN(3)	Varies with specific course	
	*Design or Technical Elective (4)	Varies with specific course	

***Total of Design and Technical Elective minimum 19 credits and must include at least 1 Design Course.**

➔ See **CURRICULUM REQUIREMENTS SHEET** (**www.engin.umd.umich.edu/SRA/circ_requir.php**) <link> for detailed requirements, including those for the DDC (Dearborn Discovery Core) courses.

➔ For courses needed for co-op see: www.engin.umd.umich.edu/COOP/eligibility.php <link> [8/17]