

Bioengineering Lorain Premed Flowchart

1ST YEAR		2ND YEAR				3RD YEAR		4TH YEAR		5TH YEAR		
Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
Calculus I MTHM 181 4 hrs	Calculus II MTHM 182 4 hrs	Multivariate Calculus MTHM 281 4 hrs	Differential Equations MTHM 283 3 hrs	Electrical Circuits EECS 2300 4 hrs	Orientation & Intro to BIOE BIOE 1000 3 hrs	Co-op Experience BIOE 3940 1 hr	Coursework for deficiencies, medical school requirements, business minor or additional co-op experience.	Co-op Experience BIOE 3940 1 hr	BIOE Thermo- dynamics BIOE 2100 3 hrs	Co-op Experience BIOE 3940 1 hr	Biotransport Phenomena BIOE 3400 3 hrs	Analysis of BIOE Systems BIOE 4300 3 hrs
General Chemistry I CHMY 171 4 hrs	General Chemistry II CHMY 172 4 hrs	Organic Chemistry I CHMY 271 3 hrs	Organic Chemistry II CHMY 272 3 hrs	Cell Biology Laboratory BIOL 3040 2 hrs	Biomaterials BIOE 2200 3 hrs				Intro to Biomechanics BIOE 3110 3 hrs		Biosignal Processing BIOE 4120 4 hrs	Senior Design Project II BIOE 4420 3 hrs
General Chem Lab I CHMY 171 1 hr	General Chem Lab II CHMY 172 1 hr	Organic Chem Lab I CHMY 271 1 hr	Organic Chem Lab II CHMY 272 1 hr	HUM/SS/MC Elective 3 hrs	Bioprocessing Laboratory BIOE 3500 3 hrs				Biomedical Electronics BIOE 3300 4 hrs		Senior Design Project I BIOE 4410 3 hrs	BIOE Technical Elective 3 hrs
English Composition ENGL 161 3 hrs	Physics I PHYC 251 5 hrs	Physics II PHYC 252 5 hrs	Computer Applications BIOE 1200 3 hrs	HUM/SS/MC Elective 3 hrs	Physiology for Bioengineers BIOE 4100 3 hrs				Technical Writing ENGL 2950 3 hrs		BIOE Technical Elective 3 hrs	Technical Elective 3 hrs
CMMC 151 Elective 3 hrs	PSYH 151 Elective 3 hrs	Fund. of Life Science II BIOG 161 4 hrs	Cell Biology BIOL 3030 3 hrs		Statics CIVE 1150 3 hrs							
		Fund. of Life Science Lab II BIOG 161 1 hr	Professional Development BIOE 1010 1 hr									
			HUM/SS/MC Elective 3 hrs									
15 hours	17 hours	18 hours	17 hours	12 hours	15 hours	1 hour	Optional	1 hour	13 hours	1 hour	13 hours	12 hours