

# Bioengineering Premed D Flowchart

1ST YEAR		2ND YEAR			3RD YEAR			4TH YEAR		5TH YEAR		
Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
General Chemistry I CHEM 1230 4 hrs	General Chemistry II CHEM 1240 4 hrs	Organic Chemistry I CHEM 2410 3 hrs	Organic Chemistry II CHEM 2420 3 hrs	Cell Biology Laboratory BIOL 3040 2 hrs	Co-op Experience BIOE 3940 1 hr	BIOE Thermo- dynamics BIOE 2100 3 hrs	Co-op Experience BIOE 3940 1 hr	Biomaterials BIOE 2200 3 hrs	Co-op Experience BIOE 3940 1 hr	Coursework for deficiencies, medical school requirements, business minor or additional co-op experience.	Biosignal Processing BIOE 4120 4 hrs	Technical Elective 3 hrs
General Chem Lab I CHEM 1280 1 hr	General Chem Lab II CHEM 1290 1 hr	Organic Chem Lab I CHEM 2460 1 hr	Organic Chem Lab II CHEM 2470 1 hr	Electrical Circuits EECS 2300 4 hrs		Intro to Biomechanics BIOE 3110 3 hrs		Biotransport Phenomena BIOE 3400 3 hrs			Senior Design Project I BIOE 4410 3 hrs	Senior Design Project II BIOE 4420 3 hrs
Calculus I MATH 1850 4 hrs	Calculus II MATH 1860 4 hrs	Multivariate Calculus MATH 2850 4 hrs	Differential Equations MATH 3860 3 hrs	HUM/SS/MC Elective 3 hrs		Biomedical Electronics BIOE 3300 4 hrs		Bioprocessing Laboratory BIOE 3500 3 hrs			BIOE Technical Elective 3 hrs	BIOE Technical Elective 3 hrs
English Composition ENGL 1110 3 hrs	Physics I PHYS 2130 5 hrs	Physics II PHYS 2140 5 hrs	Statics CIVE 1150 3 hrs	HUM/SS/MC Elective 3 hrs		Analysis of BIOE Systems BIOE 4300 3 hrs		Physiology for Bioengineers BIOE 4100 3 hrs			HUM/SS/MC Elective 3 hrs	HUM/SS/MC Elective 3 hrs
Orientation & Intro to BIOE BIOE 1000 3 hrs	Computer Applications BIOE 1200 3 hrs	Fund. Life Science II BIOL 2170 4 hrs	Cell Biology BIOL 3030 3 hrs			HUM/SS/MC Elective 3 hrs						
		Fund. Life Science Lab II BIOL 2180 1 hr	Technical Writing ENGL 2950 3 hrs									
			Professional Development BIOE 1010 1 hr									
15 hours	17 hours	18 hours	17 hours	12 hours	1 hour	16 hours	1 hour	12 hours	1 hour	Optional	13 hours	12 hours