

Bioengineering Cuyahoga Premed Flowchart

1ST YEAR		2ND YEAR				3RD YEAR		4TH YEAR		5TH YEAR		
Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Fall	Spring	
General Chemistry I CHEM 1300 4 hrs	General Chemistry II CHEM 1310 4 hrs	Organic Chemistry I CHEM 2300 3 hrs	Organic Chemistry II CHEM 2310 3 hrs	Cell Biology BIOL 3030 3 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	Intro to Biomechanics BIOE 3110 3 hrs	Co-op Experience BIOE 3940 1 hr	Biosignal Processing BIOE 4120 3 hrs	
General Chem Lab I CHEM 130L 1 hr	General Chem Lab II CHEM 131L 1 hr	Organic Chem Lab I CHEM 2300 1 hr	Organic Chem Lab II CHEM 2310 1 hr	Cell Biology Laboratory BIOL 3040 2 hrs	BIOE Thermodynamics BIOE 2100 3 hrs				Biomedical Electronics BIOE 3300 3 hrs		Senior Design Project I BIOE 4410 3 hrs	Senior Design Project II BIOE 4420 3 hrs
Calculus I MATH 1610 4 hrs	Calculus II MATH 1620 4 hrs	Multivariate Calculus MATH 2310 4 hrs	Differential Equations MATH 2520 3 hrs	Technical Writing ENGL 2950 3 hrs	Bioprocessing Laboratory BIOE 3500 3 hrs				Biotransport Phenomena BIOE 3400 3 hrs		BIOE Technical Elective 3 hrs	BIOE Technical Elective 3 hrs
English Composition ENGL 1010 3 hrs	Physics I PHYS 2310 5 hrs	Physics II PHYS 2320 5 hrs	Professional Development BIOE 1010 1 hr	Statics CIVE 1150 3 hrs	Physiology for Bioengineers BIOE 4100 3 hrs				Bioelectronics Laboratory BIOE 4140 2 hrs		Technical Elective 3 hrs	HUM/SS/MC Elective 3 hrs
SPCH 1010 Elective 3 hrs	PSY 1010 Elective 3 hrs	Fund. of Life Science II BIO 1500 4 hrs	Computer Applications BIOE 1200 3 hrs	HUM/SS/MC Elective 3 hrs	Electrical Circuits EECS 2300 4 hrs				Analysis of BIOE Systems BIOE 4300 3 hrs			HUM/SS/MC Elective 3 hrs
		Fund. of Life Science Lab II BIO 1500 1 hr	Biomaterials BIOE 2200 3 hrs									
15 hours	17 hours	18 hours	14 hours	14 hours	16 hours	1 hour	Optional	1 hour	14 hours	1 hour	12 hours	12 hours