

Bioengineering Premed A Flowchart

1ST YEAR		2ND YEAR				3RD YEAR			4TH YEAR		5TH YEAR
Fall	Spring	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall
Orientation & Intro to BIOE BIOE 1000 Computing 2 hrs	Intro to BIOE Applications BIOE 1200 2 hrs	Statics CIVE 1150 3 hrs	Professional Development BIOE 1010 1 hr	Fund. Life Science II BIOL 2170 4 hrs	BIOE Thermo-dynamics BIOE 2100 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	Senior Design Project I BIOE 4410 3 hrs	Co-op Experience BIOE 3940 1 hr	Senior Design Project II BIOE 4420 3 hrs
Freshman Design I BIOE 1410 1 hr	Freshman Design II BIOE 1420 1 hr	Organic Chemistry I CHEM 2410 3 hrs	Organic Chemistry II CHEM 2420 3 hrs	Fund. Life Science Lab II BIOL 2180 1 hr	Bioprocessing Laboratory BIOE 3500 3 hrs				Intro to Biomechanics BIOE 3110 3 hrs		Biosignal Processing BIOE 4120 3 hrs
General Chemistry I CHEM 1230 4 hrs	General Chemistry II CHEM 1240 4 hrs	Organic Chem Lab I CHEM 2460 1 hr	Organic Chem Lab II CHEM 2470 1 hr	Cell Biology BIOL 3030 3 hrs	Physiology for Bioengineers BIOE 4100 3 hrs				Biomedical Electronics BIOE 3300 3 hrs		BIOE Technical Elective 3 hrs
General Chem Lab I CHEM 1280 1 hr	General Chem Lab II CHEM 1290 1 hr	Multivariate Calculus MATH 2850 4 hrs	Differential Equations MATH 2860 3 hrs	Technical Writing ENGL 2950 3 hrs	Electrical Circuits EECS 2300 4 hrs				Bioelectronics Laboratory BIOE 4140 2 hrs		BIOE Technical Elective 3 hrs
Calculus I MATH 1850 4 hrs	Calculus II MATH 1860 4 hrs	Physics II PHYS 2140 5 hrs	Biomaterials BIOE 2200 3 hrs	HUM/SS/MC Elective 3 hrs	Biochemistry I CHEM 3510 3 hrs				Biotransport Phenomena BIOE 3400 3 hrs		HUM/SS/MC Elective 3 hrs
English Composition ENGL 1110 3 hrs	Physics I PHYS 2130 5 hrs	HUM/SS/MC Elective 3 hrs	Biomedical Quality Control BIOE 4300 3 hrs		Cell Biology Laboratory BIOL 3040 2 hrs				HUM/SS/MC Elective 3 hrs		
			HUM/SS/MC Elective 3 hrs								
15 hours	17 hours	19 hours	17 hours	14 hours	18 hours	1 hour	Optional	1 hour	17 hours	1 hour	15 hours

Name: _____

Rocket ID: _____

Catalog Year: _____

CORE ELECTIVES *

- US Diversity: _____
- Non US Diversity: _____
- Social Science: _____
- Social Science: _____
- Humanity: _____
- Humanity: _____

*only one of each allowed
revised 2/12/2020

HONORS STUDENTS REQUIREMENTS

- US Diversity = HON 2010*
- Social Science = HON 2010*
- Humanity = HON 1010
- HON 3010 and 27 total hours required