

SFU Engineering Science – **BIOMEDICAL OPTION**
Pre-Med Concentration

YEAR 1					
TERM 1, FALL		TERM 2, SPRING		SUMMER	
CHEM 121-4	General Chemistry & Lab	ENSC 102-1	Form, Style, & Professional Genres		
CMPT 128-3	Intro to Computing Science & Programming for Engineers	ENSC 150-3	Intro to Computer Design		
ENSC 100(w)-3	Engineering Society & Technology	MATH 152-3	Calculus II		
ENSC 101(w)-1	Writing Process, Persuasion, & Presentations	MATH 232-3	Elementary Linear Algebra		
MATH 151-3	Calculus I – or MATH 150	PHYS 121-3	Optics, Electricity, & Magnetism		
PHYS 120-3	Modern Physics and Mechanics	PHYS 131-2	General Physics Lab		
		Cmpl I	First Complementary Elective		
YEAR 2					
TERM 3, FALL		SPRING	TERM 4, SUMMER		
CHEM 122-2	General Chemistry II	Co-op Term	BISC 101-4	General Biology	
CHEM 126-2	General Chemistry Lab II		ENSC 204-1	Graphical Communication for Engineering	
CMPT 225-3	Data Structures & Programming		ENSC 225-4	Microelectronics	
ENSC 215-3	Microcontroller/Assembly Prgrm		ENSC 250-3	Intro to Computer Architecture	
ENSC 220-3	Electronic Circuits I		ENSC 320-3	Electric Circuits II	
MATH 251-3	Calculus III		BPK 201-3	Biomechanics	
MATH 310-3	Differential Equations				
YEAR 3					
FALL	TERM 5, SPRING		SUMMER	TERM 6, FALL	
Co-op Term	CHEM 281-4	Organic Chemistry I	Co-op Term	CHEM 282-2	Organic Chemistry II
	ENSC 304-1	Human Factors & Usability Engineering		CHEM 286-2	Organic Chemistry Lab II
	ENSC 330-4	Engineering Materials		ENSC 383-4	Feedback Control Systems
	ENSC 370-3	Biomedical Eng. Directions		BPK 308-3	Experiments & Models in Physiology
	ENSC 380-3	Linear Systems		STAT 270-3	Intro to Probability & Stats
	BPK 208-3	Intro to Physiological Syst.		ENSC 3 or 4XX	First Engineering Sci Elective
	MACM 316-3	Numerical Methods			
YEAR 4					
TERM 7, SPRING		SUMMER	TERM 8, FALL		
ENSC 305-1	Project Documentation & Team Dynamics		ENSC 201-3	The Business of Engineering	
ENSC 350-3	Digital Systems Design		Cmpl II	Second Complementary Elective	
ENSC 372-4	Biomedical Instrumentation		MBB 231-3	Cellular Biology & Biochemistry	
ENSC 406-2	Social Responsibility & Professional Practice		ENSC 3 or 4XX	Second Engineering Sci Elective	
ENSC 440-4	Capstone Engineering Sci Project		ENSC 4XX-4	Third Engineering Sci Elective	
MBB 222-3	Molecular Biology & Biochemistry				
TERM 9, SPRING					
	BISC 102-3	General Biology	ENSC 374-4	Biomedical Image Acquisition	
	MBB 321-3	Intermediary Metabolism	ENSC 4XX-4	Fourth Engineering Sci Elective	
	ENGL 102W-3	Introduction to Poetry			