DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Course Sequence B: Applies to the Students enrolled in Winter 2024

YEARWISE COURSE LIST FOR COMPLETION OF GRADUATION REQUIREMENTS

1st Year		
Fall Term	Winter Term	Summer term
	GENG-1101: Engineering I	CHEM-1103: Topics in General Chemistry
	GENG-1102: Engineering Graphics	GENG-1110: Engineering Mechanics I
	MATH-1270: Linear Algebra	GENG-1201: Cornerstone Design
	MATH-1720: Differential Calculus	GENG-1202: Introductory Electrical and Computer
	PHYS-1400: Introductory Physics I	Engineeirng
		MATH-1730: Integral Calculus
	Second Year	
Fall Term	Winter Term	Summer Term
GENG-2101: Engineering II (New)	ELEC-2170: Digital Logic Design	GENG-2980: Work Term I (Co-Op Students Only)
PHYS-2100: Topics in Physics (New)	ELEC-2200: Circuit Analysis II	
ELEC-2141: Circuit Analysis I (New)	ELEC-2260: Electronics I	
ELEC-2240: Signals and Systems	ELEC-2280: Electromagnetic Fields	
MATH-2780: Vector Calculus	ELEC-2320: Software Fundamentals	
MATH-2790: Differential Equations	GENG-2220: Engineering Probability & Statistics	
	3rd Year	
Fall Term	Winter Term	Summer Term
ELEC-3000: Engineering Design (New)		ELEC-3010: Computer Aided Analysis
ELEC-3130: Electromechanical Systems	GENG-3980: Work Term II (Co-Op Students Only)	ELEC-3030: Physical Electronics
ELEC-3160: Electronics II		ELEC-3040: Embedded System Design
ELEC-3270: Microprocessors		ELEC-3240: Control Systems I
GENG-3130: Engineering Economics		ELEC-3290: Analog Communications
*One complementary studies course from the		
Faculty of Engineering's approved list		
4th year		
Fall Term	Winter Term	Summer Term
	ELEC-4000A: Capstone Design Project	ELEC-4000B: Capstone Design Project
GENG-4980: Work Term III (Co-Op Students Only)	ELEC-4310: Control Systems II	ELEC-4320: EM Waves and Radiating Systems
	ELEC-4570: Fundamentals of Digital Signal	**two (2) or three (3) courses from the elective course
	Processing	list above
	*One complementary studies course from the Faculty of Engineering's approved list (New)	
	**one (1) or two (2) courses from the elective course list below:	

4th year electives course list

ELEC-4600: Power Systems II

ELEC-4190: Digital Communications			
ELEC-4330: Digital Integrated Circuit Design	First Year:		
ELEC-4340: Automotive Electronics	Common to all Engineering Programs		
	Second Year: Students must have completed at least eight (8) of their 1st year courses before being allowed to register		
ELEC-4360: Computer Communications	into the 2nd year courses including all pre-requisite courses required for registration into the 2nd year		
ELEC-4370: Intelligent Computing	COURSES Third Voor:		
ELEC 1290: Coding and Information Theory	Third Year: Students must have completed all the 1st year courses and at least ten (10) of their 2nd year courses (or have received permission from the advisor) before being alllowed to register into the 3rd year courses including all pre-requisite courses required for registration into the 3rd year courses		
ELEC 1200: Multimodia Systems			
FLFC 4400, Wireless Communications			
ELEC-4440: Analog Integrated Circuit Design	Fourth Year: Students cannot register into any of the 4th year courses until all Electrical Engineering courses from 1st,		
ELEC-4450: Power Electronics	2nd and 3rd year have been completed		
ELEC-4470: Computer Networks Security	,		
ELEC-4480: Digital Computer Architecture			
ELEC-4490: Sensor and Vision Systems			
ELEC-4500: Power Systems I			