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-4190: Digital Communications	
ELEC-4330: Digital Integrated Circuit Design	First Year:
ELEC-4340: Automotive Electronics	Common to all Engineering Programs
ELEC-4350: Microelectromechanical Systems	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
ELEC-4380: Coding and Information Theory	Third Year:
ELEC-4390: Multimedia Systems	Students must have completed all the 1st year courses and at least ten (10) of their 2nd year courses (or
ELEC-4400: Wireless Communications	have received permission from the advisor) before being alllowed to register into the 3rd year courses
ELEC-4440: Analog Integrated Circuit Design	including all pre-requisite courses required for registration into the 3rd year courses Fourth Year:
ELEC-4450: Power Electronics	Students cannot register into any of the 4th year courses until all Electrical Engineering courses from 1st,
ELEC-4470: Computer Networks Security	2nd and 3rd year have been completed
ELEC-4480: Digital Computer Architecture	
ELEC-4490: Sensor and Vision Systems	
ELEC-4500: Power Systems I	
ELEC-4600: Power Systems II	