

# ELECTRICAL ENGINEERING

(4-year Duration Sequences)

1- The Department will be offering all of the 200 and 300-level courses which are core for both the Electrical Engineering program and Computer Engineering program (except project courses) in all three terms of Summer, Fall and Winter. Courses which are offered in all three terms are shown in the following recommended sequences in **blue font**.

2- The Department will be offering all of the 200 and 300-level courses which are core to either the Electrical Engineering program or Computer Engineering program in both the Fall and Winter terms. These courses are shown in **red font** in the following sequences.

3- ENGR290, ELEC390 and COEN390 projects are offered in both the Fall and Winter terms. ELEC490 and COEN490 projects are offered once a year as a two-term project in the Fall/Winter term.

4- Students who have been admitted and registered in the Electrical Engineering or Computer Engineering programs in Fall 2019 or later are required to be either in the COOP program or C-Edge program. Students in the C-Edge or COOP programs are supposed to take and pass at least one or three work terms, respectively. Note that students may not register in COEN490 and ELEC490 projects if they have not completed and passed one work term.

5- Being in the COOP program is optional. A student who is withdrawn from the COOP program will be automatically enrolled in the C-Edge program. COOP students are supposed to follow the sequence as shown below. If a COOP student lags behind in courses, due to taking a low number of courses or failing some of the courses and need to change work terms, they have to fill the sequence change form and contact the corresponding Undergraduate Program Director for the re-scheduling of their COOP work terms.

	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2	Fall Year 3	Winter Year 3	Summer Year 3	Fall Year 4	Winter Year 4
Electrical Engineering Program (COOP Fall Entry) 4-year duration	COEN243	COEN311	ELEC242	COOP WORK TERM	ELEC342	ELEC372	ELEC331	COOP WORK TERM	COOP WORK TERM	ELEC490	ELEC490
	COEN212	COEN231	ELEC311		COEN352	COEN313	ELEC366			ELEC321	GEN-ED
	ELEC273	COEN244	ENGR371		ELEC312	ENGR301	ELEC367			ELECTIVE	ELECTIVE
	ENGR213	ENGR233	ENGR391		ENGR290	ENGR392	ELEC351			ELECTIVE	ELECTIVE
	ENGR201&202	ENCS282			ELEC251		ELEC390			ELECTIVE	ELECTIVE

6- Note that students may not withdraw from the C-Edge program unless they have been admitted to the COOP program. A student who finishes at least 60 credits is eligible for a C-Edge work term. This is the basis for the decision of the Department in assigning the schedule for the work terms. Based on the recommendation of the Department, the COOP Institute will inform C-Edge students in their first term, and before the DISC deadline, when they are supposed to take their C-Edge work term. Normally, the work terms are assigned for the Fall and Winter terms. In special cases, a Summer work term may be assigned.

7- For C-Edge students, an example of a 4-year sequence is given below. According to this sequence, Fall entry students take their C-Edge work term either in Fall Year 3 or Winter Year 3 but Winter entry students take their C-Edge work term in Winter Year 3.

	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2	Fall Year 3	Winter Year 3	Summer Year 3	Fall Year 4	Winter Year 4
Electrical Engineering Program (C-Edge Fall Entry) 4-year duration	COEN243	COEN311	No activity	ELEC242	ELEC342	ELEC372	C-Edge WORKTERM	ELEC312	No activity	ELEC490	ELEC490
	COEN212	COEN231		ELEC251	ELEC331	COEN313		ELEC366		ENGR392	GEN-ED
	ELEC273	COEN244		ELEC311	ENGR290	ENGR391		ELEC367		ELECTIVE	ELECTIVE
	ENGR213	ENGR233		COEN352	ENGR371	ENGR301		ELEC351		ELECTIVE	ELECTIVE
	ENGR201	ENCS282		ENGR202	ELEC321			ELEC390		ELECTIVE	ELECTIVE
Electrical Engineering Program (C-Edge Winter Entry) 4-year duration	No activity	COEN243	COEN231	ELEC242	ELEC342	ELEC372	ELEC312	C-Edge WORKTERM	No activity	ELEC490	ELEC490
		COEN212	COEN244	ELEC251	ELEC331	COEN313	ELEC366			ENGR392	GEN-ED
		ELEC273	ENGR233	ELEC311	ENGR290	ENGR391	ELEC367			ELECTIVE	ELECTIVE
		ENGR213	ENCS282	COEN352	ENGR371	ENGR301	ELEC351			ELECTIVE	ELECTIVE
		ENGR201&202		COEN311	ELEC321		ELEC390			ELECTIVE	ELECTIVE

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Please see the next page for 4.5 and 5.5-year sequences

# Electrical Engineering

(4.5 and 5.5-year duration sequence examples)

8- For C-Edge students, an example of a 4.5-year sequence is given below. In this sequence example, students are supposed to take four courses in the Fall and Winter terms and two courses in the Summer I term (May-June).

							Fall Year 3	Winter Year 3						
							C-Edge WORKTERM	ELEC390						
								ELEC366						
								ELEC351	Summer Year 3	Fall Year 4	Winter Year 4	Summer Year 4	Fall Year 5	
								ELEC367	ELEC372	ELEC490	ELEC490	ENGR392	GEN-ED	
Electrical Engineering Program (C-Edge Fall Entry) 4.5-year duration	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2		Winter Year 3	Summer Year 3	Fall Year 4	Winter Year 4	Summer Year 4	Fall Year 5	
	COEN243	COEN244	COEN231	ELEC242	ELEC342	ENGR371		ELEC390						
	ELEC273	COEN212	COEN311	ELEC251	ELEC331	ENGR301		ELEC366						
	ENGR213	ENGR233		ELEC311	COEN352	No activity		ELEC351	ELEC372	ELEC490	ELEC490	ENGR392	GEN-ED	
	ENGR201&202	ENCS282	No activity	ENGR290	COEN313	No activity		ELEC367	ENGR391	ELEC312	ELEC321	ELECTIVE	ELECTIVE	
								C-Edge WORKTERM	No activity		ELECTIVE	ELECTIVE	No activity	ELECTIVE

Electrical Engineering Program (C-Edge Winter Entry) 4.5-year duration	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2	Fall Year 3	Winter Year 3	Summer Year 3	Fall Year 4	Winter Year 4	Summer Year 4	Fall Year 5	Winter Year 5
	No activity	COEN243	COEN212	ENGR233	ELEC342	COEN231	COEN313	C-Edge WORKTERM	ELEC372	ELEC390	GEN-ED	ENGR392	COEN490	COEN490
		ELEC273	ELEC242	COEN244	ELEC251	ENGR371	ENGR301		ENGR391	ELEC321	ELECTIVE	ELECTIVE	ELECTIVE	ELECTIVE
		ENGR213	No activity	ENCS282	ELEC311	No activity	COEN352		No activity	ELEC367	ELEC312	No activity	ELECTIVE	ELECTIVE
		ENGR201&202		COEN311	ENGR290		ELEC331			ELEC366	ELEC351			

9- For C-Edge students, an example of a 5.5-year sequence is given below. In this sequence example, students are supposed to take four courses in the Fall and Winter terms and no courses in the Summer terms.

										Fall Year 4	Winter Year 4						
										C-Edge WORKTERM	ELEC321						
											ELEC367						
											ELEC351						
Electrical Engineering Program (C-Edge Fall Entry) 5.5-year duration	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2	Fall Year 3	Winter Year 3	Summer Year 3		ENGR301	Summer Year 4	Fall Year 5	Winter Year 5	Summer Year 5	Fall Year 6	
	COEN243	COEN244	No activity	ELEC242	ELEC342	No activity	ENGR371	ELEC321	No activity	C-Edge WORKTERM	ELEC351	No activity	ELEC490	COEN490	No activity	GEN-ED	
	ELEC273	COEN212		ELEC251	ELEC311		ELEC331	ELEC372			ENGR392		ELECTIVE	ELECTIVE		ELECTIVE	
	ENGR213	ENGR233		COEN231	COEN352		COEN313	ELEC366			ELEC312		ELECTIVE	ELECTIVE		ELECTIVE	
	ENGR201&202	ENCS282		COEN311	ENGR290		ENGR391	ELEC390			ELEC367		ELECTIVE				
										ELEC351	C-Edge WORKTERM						
										ENGR301							

Electrical Engineering Program (C-Edge Winter Entry) 5.5-year duration	Fall Year 1	Winter Year 1	Summer Year 1	Fall Year 2	Winter Year 2	Summer Year 2	Fall Year 3	Winter Year 3	Summer Year 3	Fall Year 4	Winter Year 4	Summer Year 4	Fall Year 5	Winter Year 5	Summer Year 5	Fall Year 6	Winter Year 6
	No activity	COEN243	No activity	COEN244	ELEC242	No activity	ELEC342	ENGR371	No activity	ELEC321	C-Edge WORKTERM	No activity	ELEC490	ELEC490	No activity	GEN-ED	ELECTIVE
		ELEC273		COEN212	ELEC251		ELEC311	ELEC331		ELEC372			ELEC312	ENGR392		ELECTIVE	ELECTIVE
		ENGR213		ENGR233	COEN231		COEN352	COEN313		ELEC366			ELEC367	ENGR301		ELECTIVE	ELECTIVE
		ENGR201&202		ENCS282	COEN311		ENGR290	ENGR391		ELEC390			ELEC351	ELECTIVE			

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