

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING - 4 YEAR 2 COOP OPTION

CURRICULUM OUTLINE - CLASS OF 2014, 2015, 2016

	FALL		SPRING		SUMMER 1		SUMMER 2		
Year 1	MATH1341	Calculus 1 for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	Vacation	Vacation	
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3			
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 2 Lab	1			
	GE1110	Eng'g. Design	4	PHYS1153	ILS for PHYS1151	1			
	GE1000	Intro to Eng'g.	1	GE1111	Eng'g Probl. Solv. & Comp.	4			
	NU Core	Arts Lvl. 1 OR Hum. Lvl. 1	4	ENGL1111	College Writing	4			
Year 2 MC	MATH2341	Diff. Eq./Lin.Alg.	4	MATH2310	Discrete Math	4	MATH3081	Prob & Statistics General Elective 2	
	PHYS1155	Physics 2 for Engrs.	3	EECE2000	Intro to Eng'g. Coop	1			Co-op
	PHYS1156	Physics 2 Lab	1	EECE2322	Digital Logic Design	4			
	PHYS1157	ILS for PHYS1155	1	EECE2323	Lab for EECE2322	1			
	CS1500	Algorithms & DS	4	EECE2410	Circuits	4			
	CS1501	Lab for CS1500	1	EECE2411	Intro to ECE Lab	1			
NU Core	Social Science Lvl. 1	4	Elective	General Elective 1	4				
Year 2 MD	MATH2341	Diff. Eq./Lin.Alg.	4	Co-op	Co-op	MATH3081	Prob & Statistics General Elective 1		
	PHYS1155	Physics 2 for Engrs.	3						
	PHYS1156	Physics 2 Lab	1						
	PHYS1157	ILS for PHYS1155	1						
	CS1500	Algorithms & DS	4						
	CS1501	Lab for CS1500	1						
EECE2000	Intro to Eng'g. Coop	1							
NU Core	Social Science Lvl. 1	4							
Year 3 MC	Co-op	Co-op	Co-op	EECE2412	Electronics 1	4	EECE4790	Capstone 1 EECE Technical Elective 2	
				EECE2413	Lab for EECE2412	1			Co-op
				EECE3000	Prof. Issues in Eng'g.	1			
				EECE3324	Computer Architecture	4			
				EECE3326	Optimization Methods	4			
				Elective	EECE Technical Elective 1	4			
Year 3 MD	MATH2310	Discrete Math	4	Co-op	Co-op	EECE4790	Capstone 1 EECE Technical Elective 1		
	EECE2322	Digital Logic Design	4						
	EECE2323	Lab for EECE2322	1						
	EECE2410	Circuits	4						
	EECE2411	Intro to ECE Lab	1						
	EECE3000	Prof. Issues in Eng'g	1						
EECE3326	Optimization Methods	4							
Year 4 MC	Co-op	Co-op	Co-op	EECE4628	Computer Networks	4	Must meet with academic advisor to determine scheduling of these courses:		
				EECE4629	Internetworkg. Des. Lab	1			
				EECE4792	Capstone Design 2	4			
				Elective	EECE Technicial Elective 3	4			
				Elective	EECE Technical Elective 4	4			
				Elective	General Elective 3	4			
Year 4 MD	EECE2412	Electronics	4	EECE4792	Capstone Design 2	4	Elective	General Elective 4	4
	EECE2413	Lab for EECE2412	1	Elective	EECE Technical Elective 2	4	Elective	General Elective 5	4
	EECE3324	Computer Architecture	4	Elective	EECE Technical Elective 3	4	*ENGL3302	Tech Writing	4
	EECE4628	Computer Networks	4	Elective	EECE Technical Elective 4	4			
	EECE4629	Internetworkg. Des. Lab	1						
	Elective	General Elective 2	4						

Revised 3/2012

*ENGL3301 is an acceptable substitution for engineering majors.

NU Core Elective Requirements: 2 required - (one Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl 1)

Technical Elective Requirements: 4 required - Any EECE course that is not required for your major program of study will satisfy this requirement.

One CS course from the following approved list may be taken as a technical elective: (CS3200, CS3600, CS3800, CS4100, CS4400, CS4410, CS4550, CS4600, CS4740)

List of EECE technical electives: (EECE3392, EECE3410 TO EECE3468, EECE4512 TO EECE4626, EECE4630 TO EECE4698, EECE5000 TO EECE5999, ENGR5670)

General Elective Requirements: 5 required - Any 4 SH course that is not remedial or repetitive.

Electives may be interchanged. Please consult with your advisor: Ellen Zierk - 404 Dana 617-373-2165 ezierk@ece.neu.edu