

**COMBINED MAJOR, ELECTRICAL AND COMPUTER ENGINEERING**  
**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING OR BACHELOR OF SCIENCE IN COMPUTER ENGINEERING**  
**CURRICULUM OUTLINE - CLASS OF 2012, 2013,2014, 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.	4						
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1						
	GE1000	Intro to Eng'g.	1	PHYS1153	ILS for PHYS1151	0						
	GE1110	Eng'g. Design	4	GE1111	Eng'g Prob. Solv. & Comp.	4						
	NU Core	Arts Lvl. 1 OR Hum. Lvl. 1	4	ENGL1111	College Writing	4						
Year 2 AA	MATH2341	Diff. Eq./Lin. Alg	4	MATH2310	Discrete Math	4	Vacation	Co-op				
	PHYS1155	Physics 2 for Engrs.	4	MATH2321	Calculus 3 for Engrs.	4						
	PHYS1156	Physics 2 Lab	1	EECE2000	Intro to Eng'g. Coop	1						
	PHYS1157	ILS for PHYS1155	0	EECE2322	Digital Logic Design	4						
	CS1500	Algorithms & DS	4	EECE2323	Lab for EECE2322	1						
	CS1501	Lab for CS1500	1	EECE2412	Electronics 1	4						
	EECE2410	Circuits	4	EECE2413	Lab for EECE2412	1						
	EECE2411	Intro to ECE Lab	1									
Year 2 BB	MATH2341	Diff. Eq./Lin. Alg	4	Co-op	Co-op	Vacation						
	PHYS1155	Physics 2 for Engrs.	4									
	PHYS1156	Physics 2 Lab	1									
	PHYS1157	ILS for PHYS1155	0									
	CS1500	Algorithms & DS	4									
	CS1501	Lab for CS1500	1									
	EECE2410	Circuits	4									
	EECE2411	Intro to ECE Lab	1									
Year 3 AA	Co-op			*ENGL3302	Adv. Writing for Prof.	4	NU Core	Social Science Lvl. 1	4			
				EECE3326	Optimization Methods	4				Elective	EECE Technical Elective 1	4
				EECE3410	Electronics II	4						
				EECE3464	Linear Systems	4						
Year 3 BB	MATH2310	Discrete Math	4	Co-op	Co-op		NU Core	Social Science Lvl. 1	4			
	MATH2321	Calculus 3 for Engrs.	4									
	EECE2322	Digital Logic Design	4							Elective	EECE Technical Elective 1	4
	EECE2323	Lab for EECE2322	1									
	EECE2412	Electronics 1	4									
	EECE2413	Lab for EECE2412	1									
Year 4 AA	Co-op			EECE3000	Prof. Issues in Eng'g.	1	EECE4572	Comm. Sys.	4			
				EECE3324	Computer Architecture	4				EECE4790	Capstone 1	4
				EECE3440	Emag Fields and Waves	4						
				EECE3441	Lab for EECE3440	1						
				EECE3468	Noise & Stoch. Proc.	4						
				Elective	EECE Technical Elective 2	4						
Year 4 BB	*ENGL3302	Adv. Writing for Prof.	4	Co-op	Co-op		EECE3468	Stoch. Proc.	4			
	EECE3000	Prof. Issues in Eng'g	1									
	EECE3326	Optimization Methods	4									
	EECE3410	Electronics 1	4									
	EECE3464	Linear Systems	4									
Year 5 AA	Co-op			EECE4628	Computer Networks	4						
				EECE4629	Internetworkg. Des. Lab	1						
				EECE4792	Capstone Design 2	4						
				Elective	EECE Technical Elective 3	4						
				Elective	EECE Technical Elective 4	4						
Year 5 BB	EECE3324	Computer Architecture	4	EECE4628	Computer Networks	4						
	EECE3440	Emag Fields and Waves	4	EECE4629	Internetworkg. Des. Lab	1						
	EECE3441	Lab for EECE3440	1	EECE4792	Capstone Design 2	4						
	EECE4572	Communication Systems	4	Elective	EECE Technical Elective 3	4						
	Elective	EECE Technical Elective 2	4	Elective	EECE Technical Elective 4	4						

Revised 6/2011

\*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.

**List of EECE technical electives:** (EECE3392, EECE4512 to EECE4535, EECE4575 to EECE4626, EECE4630 to EECE4698, EECE5000 to EECE5999, ENGR5670)

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

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