

**COMBINED MAJOR IN PHYSICS AND ELECTRICAL ENGINEERING  
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING  
CURRICULUM OUTLINE - CLASS OF 2013,2014, 2015,2016,2017**

	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	PHYS1165	Physics 2	4			
	CHEM1153	Recitation for CHEM1151	0	PHYS1166	Physics 2 Lab	1			
	PHYS1161	Physics 1	4	GE 1111	Eng'g Prob. Solv. & Comp.	4			
	PHYS1162	Physics 1 Lab	1	ENGL1111	College Writing	4			
	GE 1000	Intro to Eng'g	1						
	GE 1110	Eng'g. Design	4						
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	PHYS2305**	Therm & Stat. Mech.	4	Vacation	Co-op	
	MATH2341	Diff. Eq./Lin. Alg.	4	EECE2000	Intro to Eng'g. Coop	1			
	PHYS2303*	Modern Physics	4	EECE2322	Digital Logic Design	4			
	EECE2410	Circuits	4	EECE2323	Lab for EECE2322	1			
	EECE2411	Intro to ECE Lab	1	EECE2412	Electronics 1	4			
				EECE2413	Lab for EECE2412	1			
				NU Core	Arts Lvl. 1 OR Hum. Lvl. 1	4			
Year 3 AA		Co-op		PHYS3602	Elect. & Magnetism	4	CS1500	Algorithms &	4
				EECE3410	Electronics II	4	CS1501	DS & Lab	4
				EECE3464	Linear Systems	4	PHYS3600	Adv. Physics	4
				*ENGL3302	Adv. Writing for Prof.	4		Lab	
									Co-op
Year 4 AA		Co-op		PHYS5115	Quantum Mechanics	4	EECE4572	Comm. Sys.	4
				EECE3000	Prof. Issues in Eng'g.	1	EECE4790	Capstone 1	4
				EECE3440	Emag Fields and Waves	4			
				EECE3441	Lab for EECE3440	1			
				EECE3468	Noise & Stoch. Proc.	4			
				NU Core	Social Science Lvl. 1	4			Co-op
Year 5 AA		Co-op		EECE4792	Capstone Design 2	4			
				PHYSxxxx	Adv. Physics Elective	4			
				Elective	EECE Technical Elective 1	4			
				Elective	EECE Technical 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: 2 required** - Any EECE course that is not required for your major program of study will satisfy this requirement.

**List of EECE technical electives:** (EECE3324, EECE3392, EECE4512 TO EECE4538, EECE4574 TO EECE4698, EECE5000 TO EECE5999, ENGR 5670)

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

\*scheduled in odd years only both fall and spring

\*\*scheduled in even years only both fall and spring