

INTEGRATED DUAL MAJOR ELECTRICAL AND COMPUTER ENGINEERING
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING OR BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2011

	FALL		SPRING		SUMMER 1		SUMMER 2	
Year 1	MTHU241	Calculus 1 for Engrs.	4	MTHU242	Calculus 2 for Engrs	4	Vacation	Vacation
	CHMU151	General Chem. for Engrs.	4	PHYU151	Physics 1 for Engrs.	4		
	CHMU153	Recitation for CHMU151	0	PHYU152	Physics 1 Lab	1		
	GEU100	Intro to Eng'g	1	PHYU153	ILS for PHYU151	0		
	GEU110	Eng'g Design	4	GEU111	Eng'g Prob. Solv. & Comp.	4		
	Gen. Educ.	Historical Elective	4	ENGU111	College Writing	4		
Year 2 AA	MTHU343	Diff. Eq./Lin. Alg.	4	MTHU230	Discrete Math	4	Vacation	Co-op
	PHYU155	Physics 2 for Engrs.	4	MTHU341	Calculus 3 for Engrs	4		
	PHYU156	Physics Lab 2	1	ECEU300	Intro to Eng'g Coop	1		
	PHYU157	ILS for PHYU155	0	ECEU322	Digital Logic Design	4		
	CSU215	Algorithms & DS	4	ECEU323	Lab for ECEU322	1		
	CSU216	Lab for CSU215	1	ECEU402	Electronics 1	4		
	ECEU400	Circuits	4	ECEU403	Lab for ECEU402	1		
	ECEU401	Intro to ECE Lab	1					
Year 2 BB	MTHU343	Diff. Eq./Lin. Alg.	4	Co-op	Co-op	Vacation		
	PHYU155	Physics 2 for Engrs.	4					
	PHYU156	Physics 2 Lab	1					
	PHYU157	ILS for PHYU155	0					
	CSU215	Algorithms & DS	4					
	CSU216	Lab for CSU215	1					
	ECEU300	Intro to Eng'g Coop	1					
	ECEU400	Circuits	4					
ECEU401	Intro to ECE Lab	1						
Year 3 AA	Co-op			ECEU326	Optimization Methods	4	Gen. Educ. Soc/Sci. Hum. Elective EECE Technical Elective 1	Co-op
				ECEU440	Emag Fields and Waves	4		
				ECEU441	Lab for ECEU440	1		
				ECEU464	Linear Systems	4		
				Gen. Educ.	Social/Cultural Elective	4		
Year 3 BB	MTHU230	Discrete Math	4	Co-op	Co-op	Elective EECE Technical Elective 1	Gen. Educ. Soc./Sci. Hum. Elective	4
	MTHU341	Calculus 3 for Engrs.	4					
	ECEU322	Digital Logic Design	4					
	ECEU323	Lab for ECEU322	1					
	ECEU402	Electronics 1	4					
	ECEU403	Lab for ECEU402	1					
Year 4 AA	Co-op			*ENGL3302	Adv. Writing for Prof.	4	EECE4790 Capstone 1 EECE4572 Comm. Sys.	Co-op
				EECE3000	Prof. Issues in Eng'g	1		
				EECE3324	Computer Architecture	4		
				EECE3468	Noise & Stoch. Proc.	4		
				Elective	EECE Technical Elective 2	4		
Year 4 BB	EECE3000	Prof. Issues in Eng'g	1	Co-op	Co-op	EECE3468 Noise & Stoch. Proc. EECE4790 Capstone 1	4	4
	EECE3326	Optimization Methods	4					
	EECE3440	Emag Fields and Waves	4					
	EECE3441	Lab for EECE3440	1					
	EECE3464	Linear Systems	4					
	Gen. Educ.	Social/Cultural Elective	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	*ENGL3302	Adv. Writing for Prof.	4	EECE4628	Computer Networks	4		
	EECE3324	Computer Architecture	4	EECE4629	Internetworkg Des. Lab	1		
	EECE4572	Communication Systems	4	EECE4792	Capstone Design 2	4		
	Elective	EECE Technical Elective 2	4	Elective	EECE Technical Elective 3	4		
	Elective	EECE Technical Elective 2	4	Elective	EECE Technical Elective 4	4		

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*ENGL3301 is an acceptable substitution for engineering majors.

General Education Electives 3 required - 1 historical elective, 1 social/science humanites elective, 1 social/cultural elective.

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