

COMBINED MAJOR IN PHYSICS AND ELECTRICAL ENGINEERING
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2012,2013,2014, 2015,2016

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 PHYS1161 Physics 1 4 PHYS1162 Physics 1 Lab 1 GE 1000 Intro to Eng'g 1 GE 1100 Eng'g. Design 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1165 Physics 2 4 PHYS1166 Physics 2 Lab 1 GE 1111 Eng'g Prob. Solv. & Comp. 4 ENGL1111 College Writing 4	Vacation	Vacation
Year 2 AA	MATH2321 Calculus 3 for Engrs. 4 MATH2341 Diff. Eq./Lin. Alg. 4 PHYS2303* Modern Physics 4 EECE2410 Circuits 4 EECE2411 Intro to ECE Lab 1	PHYS2305** Therm & Stat. Mech. 4 EECE2000 Intro to Eng'g. Coop 1 EECE2322 Digital Logic Design 4 EECE2323 Lab for EECE2322 1 EECE2412 Electronics 1 4 EECE2413 Lab for EECE2412 1 NU Core Arts Lvl. 1 OR Hum. Lvl. 1 4	Vacation	Co-op
Year 3 AA	Co-op	PHYS3602 Elect. & Magnetism 4 EECE3410 Electronics II 4 EECE3464 Linear Systems 4 *ENGL3302 Adv. Writing for Prof. 4	CS1500 Algorithms & DS & Lab 4 CS1501 DS & Lab 1 PHYS3600 Adv. Physics Lab 4	Co-op
Year 4 AA	Co-op	PHYS5115 Quantum Mechanics 4 EECE3000 Prof. Issues in Eng'g. 1 EECE3440 Emag Fields and Waves 4 EECE3441 Lab for EECE3440 1 EECE3468 Noise & Stoch. Proc. 4 NU Core Social Science Lvl. 1 4	EECE4572 Comm. Sys. 4 EECE4790 Capstone 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 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: 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