ENGINEERING PHYSICS (EE) 2015-2016

First Semester MATH 1131Q – Calculus I CHEM 1127Q – General Chemistry I PHYS 1501Q – Physics for Engineers I ENGL 1010 or ENGL 1011 – Acad. Writing ENGR 1000 – Orientation to Engineering	FRESHM Credits 4 4 4 4 4 1 17	Second Semester MATH 1132Q – Calculus II CHEM 1128Q – General Chemistry II PHYS 1502Q – Physics for Engineers II Arts and Humanities Course ² CSE 1010 – Intro. To Computing for Engr.	Credits 4 4 4 3 18
SOPHOMORE YEAR			
First Semester MATH 2110Q – Multivariable Calculus PHYS 3101 – Mechanics I PHYS 2501W – Lab. in Electricity, Magnetism, & Mechanics CSE 2300W – Logic Design	Credits 4 3 3	Second Semester MATH 2410Q – Differential Equations ECE 2001W – Electric Circuits PHYS 2300 – Quantum Physics STAT 3345Q – Probability Models Engineers PHIL 1104 – Philosophy and Social Ethics	Credits 3 4 3 3 16
	14	THE 1104 – Timosophy and Social Edites	$\frac{3}{16}$
First Semester ECE 3201 – Electronic Circuit Design and Analysis ECE 3101 – Signals and Systems PHYS 3201 – Electricity & Magnetism I	JUNIO Credits 4	R YEAR Second Semester ECE 3111 – Systems Analysis PHYS 3202 – Electricity and Magnetism II ECE 4111 – Communication Systems Social Sciences course ²	Credits 3 3 3
MATH 2210Q – Linear Algebra MATH 3410 – Diff. Eqns. for Appl.	$\frac{3}{16}$	Diversity and Multiculturalism course ²	3 3 15
SENIOR YEAR			
First Semester ECE 4901 – E&CE Design I PHYS 3300 – Statistical/Thermal Physics PHYS 3401 – Intro. Quantum Mechanics ³ Social Sciences course ²	Credits 2 3 3 3 3	Second Semester ECE 4902 – E&CE Design II ECE 4211 – Micro/Optoelectronic Device Diversity and Multiculturalism course ² Elective	Credits 3 3 6

15

Elective

¹ The three-semester sequence of PHYS 1201Q-1202Q followed by PHYS 1230 or 1530 may be taken instead to satisfy this requirement. However, only eight credits of PHYS 1201-1202-1230/1503 can be used toward the required 128 credits for the Engineering degree

²The courses from content areas one (Arts and Humanities) and two (Social Sciences) must be from four different departments. One course from either content area one (Arts and Humanities) or content area two (Social Sciences) may also be used to fulfill one of the requirements from content area four (Diversity and Multiculturalism). One course from content area four must be an international course.

³Quantum mechanics for Engineers offered by the ECE department can be substituted.