

Curriculum: BS in Electrical and Computer Engineering

GENERAL EDUCATION	39	Electrical and Computer Engineering Core Requirements	73
		MATH 120 – Calculus I (GEQR)	4
Area I Effective Communication	6	MATH 121 – Calculus II	4
Written Composition (ex. ENGL 121)		MATH 122 – Linear Algebra	3
		MATH 223 – Multivariable Calculus	3
Oral Communication (ex. CTAS 124)		MATH 325 – Differential Equations	3
		CHEM 121/122 – General Chemistry I (GEKN)	4
Area II Quantitative Reasoning	3	PHY 223 – Mech. Sound & Heat (GEKN)	5
GEQR		PHY 224 – Electricity and Light	5
		ME 100 – Intro to Eng. Design & Manufacturing	3
Area III Perspective Diversity	6	CET 151 – Introduction to Engineering Programming	3
Global Awareness (GEGA)		SET 350W – Engineering Communication	3
U.S. Diversity (GEUS)		COSC 111 – Intro. To Programming	3
		EECE 212 – Engineering Circuit Analysis I	3
Area IV Knowledge of Discipline		EECE 213 – Engineering Circuit Analysis II	3
<i>Natural Science</i>	6	EECE 251 – Digital Logic Design	3
GEKN		EECE 341 – Engineering Electronics I	3
GEKN (different prefix)		EECE 351 – Microcontrollers	3
<i>Social Science</i>	6	EECE 371 – Signals and Systems	3
GEKS		EECE 400 – FE Exam Preparation	2
GEKS (different prefix)		EECE 421 – Control Systems Engineering	3
<i>Art</i>	6	EECE 430 – Power Electronics	3
GEKA		EECE 480 – Senior Capstone	3
GEKA (Diff. Prefix)			
<i>Humanities</i>	6		
GEKH		Computer Engineering Concentration	12
GEKH (Diff. Prefix)		COSC 211 – Programming Data Structures	3
		COSC 221 – Computer Organization I	3
Area V Learning Beyond the Classroom		EECE 352 – Digital System Designs with HDL	3
		EECE 452 – Adv. Digital Systems Designs w FPGA	3
		Electrical Engineering Concentration	12
		EECE 365 – Engineering Electromagnetics	3
		EECE 372 – Communication Systems	3
		EECE 342 – Engineering Electronics II	3
		EECE 431 – Digital Control Systems	3
		TOTAL DEGREE HOURS	124