

ECU Electrical Engineering

(Unofficial Community Colleges to ECU Curriculum)

Degree Earned: ECU Bachelor of Engineering – Concentration in Electrical Engineering

Transfer GPA = 2.5

Effective: 2017

Grey Highlighted Courses – Take Courses at ECU

FRESHMAN YEAR					
	Fall Semester	Credit		Spring Semester	Credit
DFT 170	ENGR 1012 Engineering Graphics	2	ECU	ENGR 1016 Intro to Engr Design	2
EGR 150	ENGR 1000 Intro to Engineering	1	ECU	ENGR 2050 Computing Applications in Engineering	3
BIO 111	BIOL 1050.1051 General Biology & Lab or BIOL 1100/1101 Principles of Biology & Lab	4	MAT 272	MATH 2152 Calculus II	3
MAT 271	MATH 2171 Calculus I	4	CHM 151	CHEM 1150/1151 General Chemistry I & Lab	4
ENG 111	ENGL 1100 Composition I	3	ENG 112	ENGL 2201 Writing about the Disciplines	3
HIS, POL, PSY, SOC	Social Science Elective	3			
17			15		
SOPHOMORE YEAR					
	Fall Semester	Credit		Spring Semester	Credit
EGR 220	ENGR 2022 Statics	3	EGR 225	ENGR 2450 Dynamics	3
ECU	ENGR 2000 Engineering Design/PM 1	1	ECU	ENGR 2514 Circuit Analysis	4
ECU	ENGR 2070 Materials and Processing	3	EGR 212	EENG 2410 Digital Circuits	3
MAT 273	MATH 2153 Calculus III	3	MAT 285 & MAT 280	MATH 2154 Differential Equations & Linear Algebra	4
PHY 251	PHYS 2350 University Physics I	4	PHY 252	PHYS 2360 University Physics II	4
	MATH 3307 Engineering Statistics	3			
17			18		
JUNIOR YEAR					
	Fall Semester	Credit		Spring Semester	Credit
ECU	ENGR 3024 Mechanics of Materials	3	ECU	ENGR 3000 Engr Design and PM 2	2
ECU	EENG 3013 AC Circuits	3	ECU	ENGR 3050 Sensors, Meas and Controls	3
ECU	EENG 3040 Microprocessors	4	ECU	EENG 3023 Signals and Systems	3
ECU	ENGR 3420 Engineering Economics	2	ECU	ENGR 3034 Thermal and Fluid Systems	4
ECO 251	Social Science Elective	3	ECU	ENGR 3800 Quality Control for Engineers	3
PED XXX	HLTH 1000 Lifetime Physical Activity	1	PED 110	EXSS 1000 Lifetime Physical Activity	2
16			17		
SENIOR YEAR					
	Fall Semester	Credit		Spring Semester	Credit
ECU	ENGR 4010 Senior Capstone Design I	2	ECU	ENGR 4020 Senior Capstone Design II	2
ECU	EENG 4510 Advanced Controls	3	ECU	Tech Elective	3
ECU	EENG 3750 Electric Power Systems	3	COM, ART, MUS	Humanities and Fine Arts Elective	3
PHI 240	PHIL 2274 or 2275 Ethics	3	HUM 110	Social Science Elective	3
	Humanities and Fine Arts Elective	4	HIS, POL, PSY, SOC	Social Science Elective	3
15			14		

ECU - Minimum Credit Hours Required for Graduation in Electrical Engineering:

128