

ECU Industrial and Systems Engineering

(Unofficial Community Colleges to ECU Curriculum)

Degree Earned: ECU Bachelor of Engineering – Concentration in Industrial & Systems Engineering

Transfer GPA = 2.5

Effective: 2017

Grey Highlighted Courses – Take Courses at ECU

FRESHMAN YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
DFT 170	ENGR 1012 Engineering Graphics	2	ECU	ENGR 1016 Intro to Engineering Design	2
EGR 150	ENGR 1000 Intro to Engr	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	MAT 2171 Calculus I	4	CHM 151	CHEM 1150/1151 General Chemistry I & Lab	4
ENG 111	ENGL 1100 Composition I	3	ENG 112	ENGL2201 Writing about the Disciplines	3
HIS, POL, PSY, SOC	Social Science Elective	3			
17				15	

SOPHOMORE YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
ECU	ENGR 2000 Engr Design /PM I	1	EGR 225	ENGR 2450 Engr Dynamics	3
EGR 220	ENGR 2022 Statics	3	ECU	ENGR 3800 Quality Control for Engineers	3
ECU	ENGR 2070 Materials and Processes	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
MAT 273	MATH 2153 Calculus III	3	PED 110	HLTH 1000 Health in Modern Society	2
ECU	MATH 3307 Engineering Statistics	3			
17				16	

JUNIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
ECU	ENGR 3024 Mechanics of Materials	3	ECU	ENGR 3000 Engr Design & PM II	2
ECU	ENGR 2514 Circuit Analysis	4	ECU	ENGR 3034 Thermal and Fluid Systems	4
ECU	ENGR 3420 Engineering Economics	2	ECU	ENGR 3050 Sensors, Meas, and Controls	3
ECU	ISYS 3060 Systems Optimization	3	ECU	ISYS 3010 Found. of Ind. & Sys. Engr.	3
ECO 251	Social Science Elective	3	ECU	ISYS 4010 Work Meas and Human Factors	3
PED XXX	EXSS 1000 Lifetime Physical Activity	1			
16				15	

SENIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
ECU	ENGR 4010 Senior Capstone Design Project I	2	ECU	ENGR 4020 Senior Capstone Design Project II	2
ECU	ISYS 4020 Analysis of production Systems and Facility Design	3	ECU	ISYS 4065 Discrete System Simulation	3
ECU	Technical Elective	3	ECU	Technical Elective	1
HIS, POL, PSY, SOC	Social Science Elective	3	ECU	Technical Elective	3
COM, ART, MUS	Humanities and Fine Arts Elective	3	PHI 240	Humanities Elective	3
	Social Science Elective	3		Foundations Elective	3

17

15

ECU - Minimum Credit Hours Required for Graduation in Industrial and Systems Engineering:

128