

## ECU Mechanical Engineering

(Unofficial Community Colleges to ECU Curriculum)

Degree Earned: ECU Bachelor of Engineering – Concentration in Mechanical 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	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 (C-)	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			
		<b>17</b>			<b>15</b>

### SOPHOMORE YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
EGR 220	ENGR 2022 Statics	3	EGR 225	ENGR 2450 Dynamics	3
ECU	ENGR 2000 Engineering Design/PM I	1	ECU	ENGR 3024 Mechanics of Materials	3
ECU	ENGR 2070 Materials and Processes	3	MAT 285 & MAT 280	MATH 2154 Differential Equations & Linear Algebra	4
MAT 273	MATH 2153 Calculus III	3	PHY 252	PHYS 2360 University Physics II	4
PHY 251	PHYS 2350 University Physics I	4		Humanities and Fine Arts Elective	3
	Social Science Elective	3			
		<b>17</b>			<b>17</b>

### JUNIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
ECU	ENGR 3624 Solid Mechanics	3	ECU	ENGR 3000 Engr. Design/PM II	2
ECU	MENG 3034 Thermo and Fluid Systems	4	ECU	MENG 3073 Thermodynamics I	3
ECU	EENG 3420 Engineering Economics	2	ECU	MENG 4650 Machine Design	3
ECU	ENGR 2514 Circuit Analysis	4	ECU	MENG 4153 Fluid Mechanics	3
ECU	MATH 3307 Engineering Statistics	3	ECU	ENGR 3800 Quality Control for Engineers	3
PED XXX	KINE 1000 Lifetime Physical Activity	1	PED 110	HLTH 1000 Health in Modern Society	2
		<b>17</b>			<b>16</b>

### SENIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
ECU	ENGR 4010 Senior Capstone Design I	2	ECU	ENGR 4020 Senior Capstone Design II	2
ECU	MENG 4263 Heat and Mass Transfer	3	ECU	TECH Elective	3
ECU	MENG 3050 Sensor, Meas & Circuits	3	ECU	TECH Elective	1
ECU	Tech Elective	3	HUM 110	Social Science Elective	3
PHI 240	PHIL 2274 or 2275 Professional Ethics Humanities and Fine Arts Elective	3	HIS, POL, PSY, SOC	Social Science Elective	3
				Humanities and Fine Arts Elective	3
		<b>14</b>			<b>15</b>

**ECU - Minimum Credit Hours Required for Graduation in Mechanical Engineering:**

**128**

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