

**INDUSTRIAL AND SYSTEMS CONCENTRATION**  
Associate in Engineering to Bachelor of Science in Engineering

**FIRST YEAR**

<b>Fall Semester</b>			<b>Spring semester</b>		
	<b>CREDITS:</b>	<b>17</b>		<b>CREDITS:</b>	<b>17</b>
ENG	111	3	ENG	112	3
MAT	271	4	MAT	272	4
CHM	151 #	4	PHY	251 #	4
EGR	150 ##	2	DFT	170 ##	3
ACA	122	1	ECO	251	3
ART	111 *	3			

**SECOND YEAR CC**

<b>Fall Semester</b>			<b>Spring Semester</b>		
	<b>CREDITS:</b>	<b>14</b>		<b>CREDITS:</b>	<b>16</b>
Humanities		3	His 131 or HIS 132 **		3
MAT	273 #	4	MAT	285 ***	3
PHY	252	4	CSC 134, 151 or EGR 214 #		3
MAT	280 ***	3	EGR	220	3

*AS Complete via MAT 273, CHM151, and CSC XXX into "Additional General Education"*

*AE Complete*

**CC hours 60**

<b>SUMMER AT ECU</b>	<b>CREDITS:</b>	<b>3</b>
ENGR	2070	3

**THIRD YEAR**

<b>Fall Semester</b>			<b>Spring Semester</b>		
	<b>CREDITS:</b>	<b>16</b>		<b>CREDITS:</b>	<b>15</b>
ENGR	2000	1	ENGR	3000	2
ENGR	3024	3	ENGR	3034	4
ENGR	3420	2	ENGR	3050	3
ENGR	2514	4	ISYS	3010	3
ISYS	3060	3	ISYS	4010	3
MATH	3307	3			

**FOURTH YEAR**

<b>Fall Semester</b>			<b>Spring Semester</b>		
	<b>CREDITS:</b>	<b>15</b>		<b>CREDITS:</b>	<b>15</b>
ENGR	4010	2	ENGR	4020	2
ISYS	4020	3	ISYS	4065	3
TECH ELECTIVE		3	TECH ELECTIVE		3
BIOL	1050/1051	4	TECH ELECTIVE		1
ENGR	2450	3	ENGR	3800	3
			KINE	1000	1
			HLTH	1000	2

**ECU hours 64**

\* ART 111 meets ECU Global Understanding and CC Fine Arts / Communications requirements

\*\* HIS131 and HIS 132 meet ECU Domestic Understanding and CC Social/Behavioral Science requirements

# Critical Path class for ECU Third year

## Critical Path, bundle EGR 150 and DFT 170 to receive credit for ENGR 1000 + 1012 + 1016

\*\*\* MATH 2154 substitution bundle: MAT 280 & MAT 285 receive credit for MATH 3256 and MATH 4332.

*Students must complete a minimum of 64 s.h. at the four year institution to graduate.*

*All guides are meant as an example of how a degree can be completed. However, individual plans will be developed for each student in consultation with the academic advisor. Course availability, prior credit, course prerequisites, major requirements, and student needs must be considered in developing the individual academic pathway.*