

2019-2020 Pathway for Bachelor of Science in Industrial and Systems Engineering

Please see your academic advisor to develop your individual plan. This is only meant to be a guide.

A maximum of 64 hours is transferable from a North Carolina Community College.

Freshman/First Year							
First Semester - Fall				Second Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
ENG 111	ENGL 100	3	UGETC: English Comp - AA/A	ENG 112	ENGL 101	3	UGETC: English Comp - AA/A
CHM 151	CHEM 106	3	UGETC: Natural Sciences – AA/AS	See notes below ¹	Humanities/Fine Arts Elective	3	
	CHEM 116	1		CSC 139 <i>or</i> CSC 239 <i>or</i> CSC 134	ISEN 162	2	
MAT 271	MATH 131	4	UGETC: Math – AS	MAT 272	MATH 132	4	GEN ED: Mathematics
EGR 150	GEEN 100	2	Pre-Major/Elective	PHY 251	PHYS 241	3	UGETC: Natural
EGR 131	GEEN 111	1			PHYS 251	1	Sciences – AS
					ISEN 121	1	
Total Credit Hours			14	Total Credit Hours			17

Sophomore/Second Year							
Third Semester - Fall				Fourth Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
PSY 150	PSYC 101	3	UGETC: Social/Behavioral Sci. – AA/AS	See notes below ¹	Global Awareness Elective	3	
	ISEN 102	2		See notes below ¹	African-American Culture/HIST Elective	3	
	ISEN 246	3			MEEN 260	2	
MAT 280	MATH 351	3		ISC 136	ISEN 255	3	
PHY 252	PHYS 242	3	UGETC: Natural Sciences – AS		ISEN 286	1	
	PHYS 252	1		MAT 273	MATH 231	4	GEN ED: Mathematics
Total Credit Hours			15	Total Credit Hours			16

Junior/Third Year

Fifth Semester - Fall

Sixth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	ISEN 380	3			ISEN 324	3	
	ISEN 430	3			ISEN 386	1	
	ISEN 361	3			ISEN 435	3	
	ISEN 370	3			ISEN 465	3	
	ISEN 471	2			ISEN 472	2	
					MEEN 230	3	
Total Credit Hours		14		Total Credit Hours		15	

Senior/Fourth Year

Seventh Semester - Fall

Eighth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	ISEN 425	3			ISEN 440	3	
	ISEN 455	3			ISEN 486	1	
	ISEN 415	3			ISEN 495	3	
	ISEN 475	3			ISEN 480	3	
	ISEN 400	1			ISETechnical Elective ¹	3	
	ISETechnical Elective ¹	3					
Total Credit Hours		16		Total Credit Hours		13	

Total Required Hours: 120

¹See your academic advisor for a list of eligible courses to satisfy these requirements.

MAJOR PROGRAM REQUIREMENTS

Students must earn a C or better in the following courses:

CHEM 106	GEEN 100
MATH 131	ISEN 361
MATH 132	ISEN 370
MATH 231	MEEN 260
PHYS 241	MEEN 230
PHYS 242	

All of your GEN ED and UGETC requirements are satisfied, if you have earned an Associate in Arts or Associate in Science Degree from a North Carolina Community College.