NC A&T Industrial and Systems Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

Degree Earned: NC A&T Bachelor of Science in Industrial and Systems Engineering Transfer GPA = 2.5

Effective: 2016-2017 Grey Highlighted Courses – Take at NC A&T

FRESHMAN YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
ENG 111	ENGL 100 Ideas & Their Expressions I	3	ENG 112 or 113	ENGL 101 Ideas and Expressions II	3
CHM 151	CHEM 106 General Chemistry VI	3	HIS, PSY, SOC,	Social Science Elective [1]	3
			ECO		
CHM 151	CHEM 116 General Chemistry VI Lab	1	NC A&T	GEEN 162 Computer Programming in VB for	2
				Engr.	
MAT 271	MATH 131 Calculus I	4	MAT 272	MATH 132 Calculus II	4
EGR 150	GEEN 100 Engineering Design and Ethics	2	PHY 251	PHYS 241 General Physics I	3
	GEEN 111 College of Engineering Colloquium	1	PHY 251	PHYS 251 General Physics I Lab	1
			NC A&T	INEN 121 ISE Colloquium	1
	14				

SOPHOMORE YEAR						
Com College	<u>Fall Semester</u>	Credit	Com College	Spring Semester	Credit	
PSY 150	PSYC 320 General Psychology	3	HUM, MUS,	Humanities Elective [1]	3	
			ART, REL,			
			PHI 240			
NC A&T	INEN 102 Graphic Visualization for IE	2	MAT 280	MATH 450 Linear Algebra and Matrix Theory	3	
NC A&T	INEN 246 Industrial Production Proc	3	NC A&T	INEN 380 Information Technology for ISE	3	
MAT 285	MATH 431 Intro to Differential Equations	3	NC A&T	INEN 255 Methods Engineering	3	
PHY 252	PHYS 242 General Physics II	3	NC A&T	INEN 289 Engineering Teams & Leadership	1	
PHY 252	PHYS 252 General Physics II Lab	1	MAT 273	MATH 231 Calculus III	4	
		15			17	

JUNIOR YEAR						
Com College	<u>Fall Semester</u>	Credit	Com College	Spring Semester	<u>Credit</u>	
HUM, MUS,	Humanities Elective [1]	3	NC A&T	INEN 324 Computer Aided Design and Mfg.	3	
ART, REL,						
PHI 240						
NC A&T	INEN 430 Deterministic Operations Research	3	NC A&T	INEN 389 Systems Approaches for IE	1	
NC A&T	INEN 361 Engineering Econ and Cost Analysis	3	NC A&T	INEN 435 Stochastic Operations Research	3	
NC A&T	INEN 370 Engineering Statistics	3	NC A&T	INEN 465 Facilities Design	3	
NC A&T	INEN 471 Ergonomics	2	NC A&T	INEN 472 Cognitive Human Factors	2	
EGR 220	MEEN 230 Statics/Mechanics of Materials	3	NC A&T	ECEN 340 Electrical Circuits	3	
17					15	

SENIOR YEAR						
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit	
NC A&T	INEN 425 Quality Assurance	3	NC A&T	INEN 460 Decision Support Systems for ISE	3	
NC A&T	INEN 455 Production Control	3	NC A&T	MEEN 260 Material Science	2	
NC A&T	INEN 415 Discrete Event Simulation Mod & Simulations	3	NC A&T	INEN 489 Professionalism and Ethics for IE	1	
NC A&T	INEN 475 Design of Experiments	3	NC A&T	INEN 495 Design Projects in Industrial Engineering	3	
NC A&T	INEN 400 General Engineering Topics Review	1	NC A&T	ISE Technical Elective [2]	3	
NC A&T	ISE Technical Electives [2]	3	NC A&T	ISE Technical Elective [2]	3	
16					15	

NC A&T - Minimum Credit Hours Required for Graduation in Industrial and Systems Engineering

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^[1] Of the nine (9) total credits of general education electives, at least three (3) credits must come from African-American studies, and at least three (3) from global studies (Recommend taking HIS 111, HIS 112 or REL 110 to satisfy Global Awareness requirement). See your advisor for a list of courses that satisfy these requirements.

^[2] See your academic advisor for a list of eligible courses.