

NC A&T Chemical Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

Degree Earned: NC A&T Bachelor of Science in Chemical Engineering

GPA required for transfer = 2.5

Effective: 2017-2018

Grey Highlighted Courses – Take at NC A&T

FRESHMAN YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
ACA 122	GEEN 111 Colloquium I - Student Success	1	ACA 122	GEEN 121 Colloquium II - Student Success	1
ENG 111	ENGL 100 Ideas and their Expressions	3	ENG 112	ENGL 101 Ideas and their Expressions II	3
MAT 271	MATH 131 Calculus I	4	MAT 272	MATH 132 Calculus II	4
CHM 151	CHEM 106 General Chemistry VI	3	BIO 111	BIOL 101 Concepts of Biology	4
CHM 151	CHEM 116 General Chemistry VI Lab	1	PHY 251	PHYS 241 General Physics I	3
EGR 150	GEEN 100 Engineering Design and Ethics	2	PHY 251	PHYS 251 General Physics I Lab.	1
14			16		

SOPHOMORE YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
	SBS/HFA	3		SBS/HFA	3
MAT 273	MATH 231 Calculus III	4	NC A&T	CHEN 220 Analytical Methods in Engineering	3
CHM 152	CHEM 107 General Chemistry VII	3	MAT 285	MATH 431 Intro to Differential Equations	3
CHM 152	CHEM 117 General Chemistry VII Lab	1	CHM 251	CHEM 221 Organic Chemistry I	3
NC A&T	CHEN 200 Chemical Process Principles	4	CHM 251	CHEM 223 Organic Chemistry I Lab	2
NC A&T	MEEN 260 Material Science	2	NC A&T	CHEN 218 Analysis of Chem. Process Data	3
17			17		

JUNIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
	SBS/HFA	3	NC A&T	CHEN 320 Heat Transfer	3
NC A&T	CHEN 300 Fluid Mechanics	3	NC A&T	CHEN 325 Intro to Chem. Process Simulation	1
NC A&T	CHEN 312 CHEN Thermodynamics	4	NC A&T	CHEN 330 Chemical Engineering Lab I	2
NC A&T	CHEM 441 Physical Chemistry I	3	NC A&T	CHEN 340 Process Dynamics and Control	3
PHY 252	PHYS 242 General Physics II	3	EGR 220	MEEN 313 Statics and Mechanics of Materials	3
PHY 252	PHYS 252 General Physics II Lab	1	NC A&T	ECEN 340 Electrical Circuits and Systems	3
17			15		

SENIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
NC A&T	CHEN 430 Process Design I	3	NC A&T	CHEN 440 Process Design II (Capstone Design)	3
NC A&T	CHEN 400 Mass Transfer Operations	3	NC A&T	CHEN 448 Process Safety, Health & Environment	3
NC A&T	CHEN 410 Chemical Engineering Lab II	2	NC A&T	CHEN Elective	3
NC A&T	CHEN 422 Chemical Reaction Engineering	3	NC A&T	CHEN Elective	3
NC A&T	Advanced Chemistry Elective	3	NC A&T	Advanced Chemistry Elective	3
	SBS/HFA	3			
17			15		

NC A&T - Minimum Credit Hours Required for Graduation in Chemical Engineering

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