

NC A&T Civil Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

Degree Earned: NC A&T Bachelor of Science in Civil Engineering
 Effective: 2017

Transfer GPA = 2.5

Grey Highlighted Courses – Take at NC A&T

FRESHMAN YEAR					
	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
EGR 150	GEEN 100 Fundamentals Engineering	2	NC A&T	CAEE 121 CAEE Colloquium II [1]	0
MAT 271	MATH 131 Calculus I	4	ENG 112	ENG 101 English Composition II	3
CHM 151	CHEM 106 General Chemistry IV	3	MAT 272	MATH 132 Calculus II	4
CHM 151	CHEM 116 General Chemistry IV Lab	1	NC A&T	Social Science Elective – African American Elective	3
NC A&T	GEEN 111 College of Engineering Colloquium [1]	1	PHY 251	PHYS 241 General Physics I	3
ENG 111	ENGL 100 English Composition I	3	PHY 251	PHYS 251 General Physics I Lab	1
DFT 170	CAEE 101 Graphics in CAEE	2			
16					14

SOPHOMORE YEAR					
	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
MAT 273	MATH 231 Calculus III	4	MAT 285	MATH 431 Intro to Differential Equations	3
EGR 220	CAAE 231 or MEEN 335 Mechanics I – Statics	3	NC A&T	MEEN 241 Thermodynamics	3
NC A&T	CAEE 230 Statics Lab	1	NC A&T	CAEE 240 Numerical Methods & MatLab	3
PHY 252	PHYS 242 General Physics II and PHY S 252 Physics Lab	4	HIS/PSY/SOC	Global Studies Elective	3
NC A&T	CM 214 Surveying	2	NC A&T	CIEN 281 CE CAD	1
NC A&T	CM 224 Surveying Lab	1	NC A&T	CAAE 232 Solid Mechanics	3
15					16

JUNIOR YEAR					
	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
NC A&T	CAEE 363 Engr. Fluids and Hydraulics Lab	1	NC A&T	CIEN 320 Geotechnical I	3
NC A&T	CAEE 325 Structural Analysis	3	NC A&T	CAEE 304 Engineering Statistics	3
EGR 225	CAEE 334 Engr Mech II - Dynamics	2	NC A&T	CAEE 364 Engineering Hydrology	3
NC A&T	CAEE 335 Construction Material Lab	1	NC A&T	CAEE 430 Structural Design in Steel	3
NC A&T	CIEN 350 Transportation Engineering	3	NC A&T	CIEN 310 Environmental Engineering	3
NC A&T	CAEE 330 Transportation Engineering	3	NC A&T	CIEN 311 Environmental Engineering Lab	1
NC A&T	CAEE 400 FE Topics Review	1	NC A&T	CIEN 321 Geotechnical Eng. Lab	1
14					17

SENIOR YEAR					
	<u>Fall Semester</u>	<u>Credit</u>		<u>Spring Semester</u>	<u>Credit</u>
NC A&T	CIEN 483 CE System Design I	1	NC A&T	CIEN 484 Design Elective II (Capstone)	2
NC A&T	CAEE 436 Reinforced Concrete Design	3	ECO 251	Social Science Elective	3
NC A&T	CAEE 481 Construction Projects	3	GEL 111 or BIO 111	Science Elective	3
NC A&T	CIEN 412 Environmental Engineering Design	3	NC A&T	CIEN 453 Transportation Eng. Design	3
HUM, ART, REL, MUS	Humanities Electives	3	NC A&T	Optional CAEE Elective	
NC A&T	CIEN 422 Geotechnical Engineering II	3	NC A&T	CIEN 401 FE Review	1
16					12

NC A&T - Minimum Credit Hours Required for Graduation in Civil Engineering	120
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