

NC A&T Architectural Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

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

Transfer GPA = 2.5

Effective: 2017

Grey Highlighted Courses – Take at NC A&T

FRESHMAN YEAR					
	Fall Semester	Credit		Spring Semester	Credit
EGR 150	GEEN 100 Fundamentals Engineering	2	NC A&T	CAEE 121 CAEE Colloquium II	0
MAT 271	MATH 131 Calculus I	4	ENG 112	ENGL 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	African American Studies	3
NC A&T	GEEN 111 College of Engineer Colloquium I	1	PHY 251	PHYS 241/251 General Physics I Lab	4
ENG 111	ENGL 100 Ideas and their Expression I	3			
DFT 170	CAEE 101 Graphics in CAEE	2			
16			14		

SOPHOMORE YEAR					
	Fall Semester	Credit		Spring Semester	Credit
MAT 273	MATH 231 Calculus III**	4	MAT 285	MATH 431 Intro to Differential Equations	3
EGR 220	CAEE 231 Mechanics I – Statics	3	NC A&T	AREN 281 BIM and Advanced CAD	3
NC A&T	CAEE 230 Statics Lab	1	NC A&T	MEEN 241 Thermodynamics	3
PHY 252	PHY 242/252 General Physics II LAB	4	NC A&T	ECEN 340 Electrical Circuit	3
NC A&T	AREN sophomore elective	3	NC A&T	CAEE 232 Solid Mechanics	3
			NC A&T	CAEE 240 Numerical Methods	2
15			17		

JUNIOR YEAR					
	Fall Semester	Credit		Spring Semester	Credit
NC A&T	CAEE 362 Engineering Fluids and Hydraulics	3	NC A&T	AREN 387 Integrated Building Design	3
NC A&T	CAEE 363 Engineering Fluids and Hydraulics Lab	1	NC A&T	CAEE 304 Engineering Statistics	3
NC A&T	AREN 382 Architectural Design I	3	NC A&T	CAEE 325 Structural Analysis	3
NC A&T	AREN 348 Fundamentals of Illumination/Power	3		Social Science Elective	3
NC A&T	AREN 344 Lighting/Power Lab	1	NC A&T	AREN 364 HVAC Principles/Systems	2
NC A&T	CAEE 330 Const. Materials & Methods	3	NC A&T	AREN 363 HVAC Principles/Systems Lab	1
NC A&T	CAEE 335 Construction Material Lab	1	NC A&T	CAEE 401 FE Review	0
NC A&T	AREN 343 Heat Transfer & Applied Thermo	2			
17			15		

SENIOR YEAR					
	Fall Semester	Credit		Spring Semester	Credit
NC A&T	AREN 480 Senior Project I (Capstone)	2	NC A&T	AREN 483 Senior Capstone Design	1
	Global Studies Elective	3	NC A&T	AREN 467 Electrical System and Smart Building	2
NC A&T	CAEE 430 Structural Design in Steel	3	EGR 225	CAEE 334 Engr Mechanics II Dynamics	2
NC A&T	AREN 462 HVAC & Hydronic System Design	3		Humanities Elective	3
NC A&T	AREN Engineering Design Elective	3	NC A&T	CAEE 450 Construction Project Management	3
			NC A&T	AREN Engr. Design Elective	3
14			14		

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

120