

NC A&T Electrical Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

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

Transfer GPA = 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
NC A&T	ECEN 101 Intro. to Problem Solving	3	CSC 134	COMP 163 Intro to Computer Programming	3
MAT 271	MATH 131 Calculus I	4	ENG 112	ENGL 101 Ideas and their Expressions II	3
CHM 151	CHEM 106 General Chemistry IV & Lab	4	MAT 272	MATH 132 Calculus II	4
EGR 150	GEEN 100 Engineering Design & Ethics	2	PHY 251	PHYS 241 General Physics I	3
ACA 122	GEEN 111 Colloquium I - Student Success	1	PHY 251	PHYS 251 General Physics I Lab	1
ENG 111	ENGL 100 Ideas and their Expression I	3		Social Science Elective [c]	3
17					17
SOPHOMORE YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
MAT 285	MATH 431 Intro to Diff. Equations	3		Social Science Elective [c]	3
PHY 252	PHYS 242 General Physics II & Lab	4	MAT 280	MATH 450 Linear Algebra/Matrix Theory	3
MAT 273	MAT 231 Calculus III	4	NC A&T	ECEN 325 Intro to Electromagnetics	3
NC A&T	ECEN 206 Instrumentation & Network Lab	1	NC A&T	ECEN 300 Electric Circuit Analysis II	3
NC A&T	ECEN 200 Electric Circuit Analysis	3	NC A&T	ECEN 306 Circuits and Systems Lab	1
			NC A&T	ECEN 327 Digital Logic	3
			NC A&T	ECEN 328 Digital Logic Lab	1
15					17
JUNIOR YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
EGR 220	MEEN 313 Statics and Mech of Materials	3	NC A&T	ECEN 427 Intro to Microprocessor	3
NC A&T	ECEN 400 Linear Sys and Signals	3	NC A&T	ECEN 433 Microprocessor Lab	1
NC A&T	ECEN 356 Stochastic Proc and Random Var	3	NC A&T	ECEN 460 Electronics II	3
NC A&T	ECEN 320 Electronic I	3	NC A&T	ECEN 466 Electronics II Laboratory	1
NC A&T	ECEN 326 Electronics I Lab	1	NC A&T	ECEN 450 Electromagnetic Wave Propagation & Transmission	3
COM 231	SPCH 250 Fundamentals of Speech	3		Gen Ed (Global Awareness)	3
16					14
SENIOR YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
NC A&T	ECEN 478 Senior Design Project I [a]	3	NC A&T	ECEN 479 Senior Design Project [a]	3
NC A&T	ECEN 4XX Technical Elective I [b]	3	NC A&T	ECEN 4XX Technical Elective I [b]	3
NC A&T	ECEN 4XX Technical Elective I [b]	3	NC A&T	ECEN 4XX Technical Elective I [b]	3
NC A&T	ECEN 410 or ECEN 430 Elective	3	NC A&T	ECEN 4XX Technical Elective I [b]	3
NC A&T	ISEN 260 Engineering Economy	2			
14					12

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

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NC A&T Electrical Engineering (continued)
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[a] Capstone Design Courses

[b] Technical Elective I (A maximum of 2 courses from a given area):

(ECEN 449, ECEN 452, ECEN 459)

(ECEN 525, ECEN 430, ECEN 450)

(ECEN 502, ECEN 508, ECEN 570)

(ECEN 423, ECEN 506, ECEN 547)

[c] At least (3) credit must come from African-American studies, and three (3) from global studies (recommend taking HIS 111, HIS 112 or REL 110 to satisfy Global Awareness requirement)