

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: 2013-2014 ■ 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	EGR 150	GEEN 100 Engineering Design and Ethics	2
MAT 271	MATH 131 Calculus I	4	ENG 112	ENGL 101 Ideas and their Expressions 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	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	HIS, PSY, SOC, ECO	Social Science Elective [d]	3
15			16		

SOPHOMORE YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
NC A&T	ECEN 121 ECE Colloquium I	1	HIS, PSY, SOC, ECO	Social Science Elective [d]	3
HUM, MUS, ART, REL, PHI 240	Humanities Elective [d]	3	PHY 252	PHYS 242 General Physics II	3
CSC 134	GEEN 160 Engineering Programming I	2	PHY 252	PHYS 252 General Physics II Lab	1
NC A&T	GEEN 161 Computer Applications in MATLAB	2	NC A&T	ECEN 300 Electric Circuit Analysis II	3
MAT 280	MATH 450 Linear Algebra and Matrix Theory	3	NC A&T	ECEN 306 Circuits and Systems Lab	2
NC A&T	ECEN 200 Electric Circuit Analysis	3	NC A&T	ECEN 212 Digital Logic	3
			NC A&T	ECEN 218 Digital Logic Lab	1
17			16		

JUNIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
HUM, MUS, ART, REL, PHI 240	Humanities Elective [d]	3	NC A&T	ECEN 400 Linear Systems and Signals	3
NC A&T	ECEN 311 Intro to Microprocessors	3	NC A&T	ECEN 460 Electronics II	3
NC A&T	ECEN 317 Microprocessor Lab	1	NC A&T	ECEN 466 Electronics II Laboratory	1
NC A&T	ECEN 300 Electrical Circuit Analysis II	3	NC A&T	ECEN 410 Linear Control Systems	3
NC A&T	ECEN 306 Circuit and System Lab	2	NC A&T	INEN 360 Engineering Economy	2
MAT 273	MATH 231 Calculus III	3			
16			16		

SENIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
NC A&T	ECEN 498 Senior Design Project I [a]	3	NC A&T	ECEN 499 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 4XX Technical Elective I [b]	3	NC A&T	ECEN 4XX Technical Elective I [b]	3
NC A&T	ECEN 425 Introduction to Electromagnetics	3	NC A&T	Technical Elective II [c]	3
15			15		

NC A&T - Minimum Credit Hours Required for Graduation in Electrical Engineering	126
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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] Technical Electives II:

ECEN 4xx, ECEN 5XX, ECEN 6XX

[d] 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)