

NC A&T Computer Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

Degree Earned: NC A&T Bachelor of Science in Computer 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 | 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 VI | 3 | MAT 272 | MATH 132 Calculus II | 4 |
| CHM 151 | CHEM 116 General Chemistry VI 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 | NC A&T | COMP 163 Computer Program Design | 3 |
| 15 | | | 16 | | |
| SOPHOMORE YEAR | | | | | |
| Com College | Fall Semester | Credit | Com College | Spring Semester | Credit |
| NC A&T | ECEN 206 Instrument and Networks Lab | 1 | MAT 273 | MATH 231 Calculus III | 4 |
| NC A&T | COMP 167 Computer Programming Design | 3 | NC A&T | COMP 280 Data Structures | 3 |
| PHY 252 | PHYS 242 General Physics II & Lab | 4 | NC A&T | ECEN 300 Electrical Circuit Analysis II | 3 |
| MAT 285 | MATH 431 Intro to Differential Equations | 3 | NC A&T | ECEN 306 Networks & Systems Lab | 1 |
| NC A&T | ECEN 227 Intro to Finite Automat & Disc Math | 3 | NC A&T | ECEN 327 Digital Logic | 3 |
| NC A&T | ECEN 200 Electrical Circuit Analysis | 3 | NC A&T | ECEN 328 Digital Logic Lab | 1 |
| NC A&T | ECEN 218 Logic Design Lab | 1 | | | |
| 17 | | | 15 | | |
| JUNIOR YEAR | | | | | |
| Com College | Fall Semester | Credit | Com College | Spring Semester | Credit |
| | Social Science [c] | 3 | ECO 251 | Social /Behavioral Science [c] | 3 |
| NC A&T | ECEN 423 Digital Systems Design 1 | 3 | NC A&T | ECEN 320 Electronics I | 3 |
| NC A&T | ECEN 419 Digital Systems Design 1 Lab | 1 | NC A&T | ECEN 326 Electronics I Lab | 1 |
| NC A&T | ECEN 427 Intro to Microprocessors | 3 | NC A&T | ECEN 356 Stochastic Proc. & Random Var | 1 |
| NC A&T | ECEN 433 Microprocessors Lab | 1 | NC A&T | ECEN 375 Computer Arch. & Org. | 3 |
| NC A&T | COMP 285 Design and Analysis of Algorithms | 3 | NC A&T | ECEN 400 Linear Sys. And Signals | 3 |
| 14 | | | 16 | | |
| SENIOR YEAR | | | | | |
| Com College | Fall Semester | Credit | Com College | Spring Semester | Credit |
| NC A&T | ECEN 478 Senior Design Proj I ^a | 3 | NC A&T | ECEN 479 Senior Design Proj II ^a | 3 |
| NC A&T | ECEN 4XX Technical Elective ^b | 3 | NC A&T | ECEN 4XX Technical Elective I ^b | 3 |
| NC A&T | ECEN 4XX Technical Elective ^b | 3 | NC A&T | ECEN 4XX Technical Elective I ^b | 3 |
| NC A&T | ECEN 421 Embedded Systems Design | 3 | NC A&T | COMP 350 Operating Systems | 3 |
| COM 231 | SPCH 250 Fundamentals of Speech | 3 | | Gen Ed (c) | 3 |
| 15 | | | 15 | | |
| NC A&T - Minimum Credit Hours Required for Graduation in Computer Engineering | | | | | 123 |

[a] Capstone Design Course

[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 523, ECEN 506)

[C] At least (3) credit must come from African-American studies, and three (3) from global studies.