

NC A&T Mechanical Engineering

(Unofficial Community Colleges to NC A&T Curriculum)

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

Transfer GPA = 2.5

Effective: 2017

Grey Highlighted Courses – Take at NC A&T

FRESHMAN YEAR					
Fall Semester		Credit	Spring Semester		Credit
ENG 111	ENGL 100 Written Communication I	3	ENG 112	ENGL 101 Written Communication II	3
CHM 151	CHEM 106 General Chemistry IV	3	PHY 251	PHYS 241 General Physics I	3
CHM 151	CHEM 116 General Chemistry IV Lab	1	PHY 251	PHYS 251 General Physics I Lab	1
MAT 271	MATH 131 Calculus I	4	MAT 272	MATH 132 Calculus II	4
EGR 150	GEEN 100 Engineering Design and Ethics	2		Social Science Elective	3
NC A&T	GEEN 111 College of Engineering Colloquium	1	NC A&T	MEEN 121 Mechanical Engr. Colloquium II	1
DFT 170	MEEN 104 Graphics in Mechanical Engineering	2			
16				15	

SOPHOMORE YEAR					
Fall Semester		Credit	Spring Semester		Credit
MAT 273	MATH 231 Calculus III	4		Humanities Elective	3
NC A&T	MEEN 202 MEEN Sophomore Project	1	PHY 252	PHYS 242 Physics II	3
NC A&T	MEEN 210 Numerical Methods using MATLAB	3	PHY 252	PHYS 252 Physics II Lab	1
EGR 220	MEEN 231 Mechanics I – Statics	3	NC A&T	MEEN 241 Fundamentals of Thermodynamics	3
NC A&T	MEEN 261 Fundamentals of Material Science	3	NC A&T	MEEN 267 Mechanics of Materials Lab	1
			NC A&T	MEEN 232 Strength of Materials	3
			EGR 225	MEEN 233 Mechanics II: Dynamics	3
14				17	

JUNIOR YEAR					
Fall Semester		Credit	Spring Semester		Credit
NC A&T	ISEN 260 Engineering Economy	2	NC A&T	ECEN 340 Electrical Circuit Analysis	3
NC A&T	ISEN 370 Engineering Statistics	3	NC A&T	MEEN 317 Thermal-Fluid Systems Lab	1
MAT 285	MATH 341 Introduction to Differential Equations	3	NC A&T	MEEN 324 System Dynamics	3
NC A&T	MEEN 316 Fluid Mechanics	3	NC A&T	MEEN 341 Applied Thermodynamics	3
NC A&T	MEEN 363 Manufacturing Process	3	NC A&T	MEEN 343 Heat Transfer	3
NC A&T	MEEN 361 Modern Engr. Materials	3	NC A&T	MEEN 321 Mechanical Engineering Design	3
17				16	

SENIOR YEAR					
Fall Semester		Credit	Spring Semester		Credit
	Social Science Elective [6]	3		Social Science Elective	3
NC A&T	MEEN 424 Vibrations and Controls	3	NC A&T	MEEN 425 Mechanical Systems Lab	1
NC A&T	MEEN 421 Computer Aided Design of Machine Elements	3	NC A&T	MEEN 404/492 ME Topics Review/Sr Seminar	1
NC A&T	MEEN 401 Gen Engr. Topics Review	1	NC A&T	MEEN 481 Mechanical Engineering Senior Project II	3
NC A&T	MEEN 480 Mechanical Engineering Senior Project	3	NC A&T	MEEN 4XX Technical Elective	3
NC A&T	MEEN 4XX Technical Elective	3	CHM 152/BIO 111/MAT 280	Math/Science Elective – other options also available at NC A&T	3
13				14	

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

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