

Curriculum Guide - Academic Year 2023-2024
Major: Bachelor of Science in Applied Engineering Technology (AET)

Major Code: AET

First Year – Fall Semester	CR	First Year – Spring Semester	CR
FRST 101 College Success (SS)	1	African American Culture and History (AA) Elective*	3
ENGL 100 Ideas & Their Expressions I (WC)	3	ENGL 101 Ideas & Their Expressions II (WC)	3
MATH 110 Pre-Calc for Eng and Sci (MLAR)	4	MATH 131 Calculus I (MLAR)	4
AET 121 Computer Applications	3	EHS 101 Intro. to Occu. Safety & Health	3
CGT 121 Design Fundamentals	3	AET 191 Intro to MFG Processes	3
Semester Total:	14	Semester Total:	16
Second Year – Fall Semester	CR	Second Year – Spring Semester	CR
CHEM 106 General Chemistry VI (SR)	3	MGMT 110 Business Environment	3
CHEM 116 General Chemistry VI Lab (SR)	1	CST 112 Electric Circuits I	3
PHYS 225 College Physics I (SR)	3	PHYS 226 College Physics II (SR)	3
PHYS 235 College Physics I Lab (SR)	1	PHYS 236 College Physics II Lab (SR)	1
CGT 124 Design Applications	3	AET 232 MFG Planning and MGMT	3
AET 212 Applied Engineering Lab	1	Humanities/Fine Arts (HFA) Elective*	3
Social/Behavioral Sciences (SBS) Elective*	3		
Semester Total:	15	Semester Total:	16
Third Year – Fall Semester	CR	Third Year – Spring Semester	CR
ACCT 210 Fund Account for Deci Making	3	AET 273 CNC Machining	3
MATH 224 Intro Probability & Statistics	3	AET 276 Programmable Logic Controller	3
AET 270 Industrial Materials & Processes	3	AET 293 Power Technology	3
Global Awareness (GL) Elective*	3	AET 312 Advanced Engineering Lab	1
Open Elective**	3	AET 395 Quality Control	3
		AET Technical Elective	3
Semester Total:	15	Semester Total:	16
Fourth Year – Fall Semester	CR	Fourth Year – Spring Semester	CR
AET 441 Industrial Robotics	3	AET 445 Industrial Project Management	3
AET 470 Capstone Project I	2	AET 480 Capstone Project II	2
AET 482 Six Sigma Applied to MFG	3	AET 484 MFG Execution Systems	3
AET 483 Enterprise Res. Planning Sys	3	AET Technical Elective***	3
AET Technical Elective	3	Open Elective	3
Semester Total:	14	Semester Total:	14

Note: Must earn a C or better in all AET courses.

Total Credit Hours: **120**

*All general education courses must be from the approved [general education courses](https://www.ncat.edu/provost/general-education-resources/gec-list.php) at N.C. A&T. They are listed at <https://www.ncat.edu/provost/general-education-resources/gec-list.php>

** Open Electives cannot be remedial courses.

*** AET Technical Elective in the senior year must be 300 or higher AET courses.

Contact Information:

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