

ATTACHMENT A

PROGRAM OF STUDY

Associate of Applied Science in Electrical Engineering Technology – Electromechanical

Northeast State Community College			
Year 1			
Semester 1	SCH	Semester 2	SCH
EDUC 1030 – College and Lifelong Learning	3	ELEC 1120 – AC Fundamentals	4
ELEC 1110 – DC Fundamentals	4	ELEC 1310 – Motors, Alternators, and Generators	4
ENGL 1010 – English Composition I	3	MECH 2330 – Piping and Auxiliaries	4
MATH 1050 – Trigonometric Applications	4	MECH 2610 – Millwright Principles	4
MECH 1210 – Mechanical Transmissions	4		
Total	18	Total	16
Year 2			
Semester 1	SCH	Semester 2	SCH
ELEC 2210 – Magnetic Motor Controls	4	Humanities Elective ¹	3
MECH 2310 – Hydraulics and Pneumatics I	4	Social/Behavioral Science Elective ²	3
PHYS 1030 – Survey of Physics or PSCI 1010 – Principles of Physical Science	4	ELEC 2410 – Allen-Bradley PLC Programming	4
COMM 2025 – Fundamentals of Communication or COMM 2045 – Public Speaking	3	WELD 1060 – General Welding	4
	15		14
		Total	63

¹Course selected from approved general education course list ([Northeast State Community College General Education Course List](#)).

²ECON 2100- Principles of Macroeconomics recommended for transfer to ETSU

Course Equivalency Table			
Northeast State Community College Course	SCH	East Tennessee State University Course	SCH
EDUC 1030 – College and Lifelong Learning	3	ETSU 1020 – Foundations of Student Success	3
ENGL 1010 – English Composition I	3	ENGL 1010 – English Composition I	3
Humanities Elective ¹	3	Humanities Elective	3
ECON 2100- Principles of Macroeconomics	3	ECON 2210- Principles of Macroeconomics	3
MATH 1050 – Trigonometric Applications	4	Math general ed Elective	3
COMM 2025 – Fundamentals of Communication or COMM 2045 – Public Speaking	3	Communication Elective	3
PHYS 1030 – Survey of Physics or PSCI 1010 – Principles of Physical Science	4	Science Elective	4
ELEC 1110 – DC Fundamentals	4	Elective	4
MECH 1210 – Mechanical Transmissions	4	Elective	4
ELEC 1120 – AC Fundamentals	4	Elective	4
ELEC 1310 – Motors, Alternators, and Generators	4	Elective	4
MECH 2330 – Piping and Auxiliaries	4	Elective	4
MECH 2610 – Millwright Principles	4	Elective	4
ELEC 2210 – Magnetic Motor Controls	4	Elective	4
MECH 2310 – Hydraulics and Pneumatics I	4	Elective	4
ELEC 2410 – Allen-Bradley PLC Programming	4	Elective	4
WELD 1060 – General Welding	4	Elective	4
Total Hours at Northeast State	63	Total Hours Transferred to ETSU	63

¹Course selected from approved general education course list ([Northeast State Community College General Education Course List](#)).

ATTACHMENT B
ACADEMIC PLAN
Bachelor of Applied Science in Industrial Leadership

East Tennessee State University			
Year 3			
Fall	SCH	Spring	SCH
Growing as an Individual	3	Electives ¹	6
History Elective	3	CDST 2200 – Interdisciplinary Learning and Multimedia Presentations	1
CSCI 1100/1150 – Using Information Technology and Lab	3	Humanities or History Elective	3
Natural Science or Social and Behavioral Science Elective	3-4	CDST 2300 – The Interdisciplinary e-Portfolio and Its Applications	1
ENGL 1020 – Written Communication and Critical Thinking	3	CDST 3000 – Workforce Skills	3
	15-16		14
Fall		Spring	
CDST 3100 – Interdisciplinary Design Thinking	3	CDST 4210 – Senior Capstone	3
CDST 4110 – Research Invention	2	Cultivate Artistic Awareness or Humanities ²	3
ENTC 4017 – Industrial Supervision	3	CDST 4950 – Special Topics in Interdisciplinary Studies	3
ENTC 3030 – Technical Communication	3	Critical Thinking Course	3
MGMT 3000 – Organizational Behavior and Management	3	Electives ¹	3
	14		15
		Total	58

¹Choose 9 credit hours from: LEAD 4467; MGMT 3100, 3310; ENTC 2060, 4777; or PSYC 3340

²Whichever not completed at Northeast State

TOTAL DEGREE HOURS:

- Northeast State – 63
- East Tennessee State University – 58
- **TOTAL – 121**