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Automation Engineer Technology

Degree Pathway

A Certificate is outlined coursework that is designed to prepare a student to head out into the workforce in a short timeframe or for career advancement. This certificate totals 56 credit hours. Consult with an advisor for more information.

( ) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Required Courses			
Course ID	**Course Title**	**Credit Hours**	**Notes**
AE100	AC/DC Circuits	4.00	Fall 2026, Spring 2027
AE101	Digital Multimeter Principles	1.00	Fall 2026, Spring 2027
AE150	Programmable Logic Controls (PLCs)	3.00	Fall 2026, Spring 2027 Prereq: AE100 AC/DC Circuits.
AE155	Electrical Maintenance	3.00	Fall 2026, Spring 2027 Prereq: AE100 AC/DC Circuits.
AE200	Variable Frequency Drives and Electric Motors	3.00	Fall 2026, Spring 2027 Prereq: ME110 Fundamentals of Motor Controls.
AE202	Actuator/Sensor Systems	3.00	Fall 2026, Spring 2027 Prereq: AE155 Electrical Maintenance.
AE205	Intermediate Programmable Logic Controllers	3.00	Fall 2026, Spring 2027 Prereq: AE150 Programmable Logic Controllers.
AE210	Industrial HMI Design & Integration	3.00	Fall 2026 Prereq: AE150 Programmable Logic Controllers.
AE250	Distributed/Integrated Control Systems	3.00	Spring 2027 Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs.
AE252	Control Systems Development	3.00	Fall 2026, Spring 2027 Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs.
AE255	Industrial Robotics	3.00	Spring 2027 Prereq: AE150 Programmable Logic Controllers.
AE256	Servo Motion Control	3.00	Spring 2027 Prereq: AE200 Variable Frequency Drives & Electric Motors, and AE205 Industrial PLCs.
EE117	Conduit Fabrication	1.00	Fall 2026, Spring 2027
EE126	NEC Codeology	1.00	Fall 2026, Spring 2027
IS182	Cisco CCNA I/Networking I	3.00	Fall 2026, Spring 2027, Summer 2027
ME106	Industrial Fluid Power	3.00	Fall 2026, Spring 2027
ME110	Fundamentals of Motor Controls	3.00	Fall 2026, Spring 2027 Prereq: AE100 AC/DC Circuits.
ME129	Mechanical Maintenance Skills	3.00	Fall 2026, Spring 2027
TR121	General Industrial Safety/OSHA10	1.00	Fall 2026

Electives			
Course ID	**Course Title**	**Credit Hours**	**Notes**
AET Math Options		**3.00**	
MA106	College Algebra	3.00	Fall 2026, Spring 2027, Summer 2027 Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher.

MA117	Contemporary Math	3.00	Fall 2026, Spring 2027, Summer 2027 Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher.
TR100	Technical Math	3.00	Fall 2026, Spring 2027
SH101 Public Speaking or SH210 Interpersonal Communication		**3.00**	
SH101	Public Speaking	3.00	Fall 2026, Spring 2027, Summer 2027
SH210	Interpersonal Communication	3.00	Fall 2026, Spring 2027, Summer 2027

Total Credits: 56.00