Automation Engineer Technology, AAS

The Automation Engineer Technology program prepares individuals to develop, install and maintain automated systems used in an industrial setting. Topics of study include electrical systems, instrumentation and process control, programmable logic controllers (PLCs), fluid power systems, industrial robotics and preventative maintenance. At the end of the program, students will sit for the International Society of Automation (ISA) Control Systems Technician (CST) Associate examination.

(Major Code 2050; State CIP Code 15.0406)

Associate of Applied Science Degree

Fall Semester

Full Semester Courses		
ENGL 121	Composition I*	3
First Eight Week Session		
ELTE 110	AC/DC Circuits*	4
ELTE 115	Print Reading*	2
INDT 155	Workplace Skills	1
Second Eight Week Session		
AET 110	Industrial Maintenance*	3
ELTE 122	National Electrical Code I*	4
Total Hours		17

Spring Semester

Full Semester Courses		
Technical Electives		3
NOTE: Technical electives are any courses with the AUTO, CET, DRAF, ELEC, ELTE, HVAC, INDT, MFAB prefix.		
Social Science and/or Economics Elective^		3
First Eight Week Session		
ELTE 200	Commercial Wiring*	4
INDT 125	Industrial Safety/OSHA 30	3
Second Eight Week Session		
AET 120	Industrial Fluid Power*	3
Total Hours		16

^ See all AAS general education electives (http://catalog.jccc.edu/degreerequirements/associate-applied-science)

Fall Semester

AET 140	Actuator and Sensor Systems*	3
AET 160	Programmable Logic Controllers I*	3
ELTE 225	Industrial Wiring I*	3
MATH 130	Technical Mathematics I* (or higher)	3
HPER 200	First Aid and CPR	2
Humanities/Art Elective^		3
Total Hours		17

^ See all AAS general education electives (http://catalog.jccc.edu/degreerequirements/associate-applied-science)

Spring Semester

AET 240	Industrial Robotics*	3
AET 260	Programmable Logic Controllers II*	3
ELTE 175	Low Voltage Wiring*	3
ELTE 250	Industrial Wiring II*	3

MATH 131	Technical Mathematics II* (or higher)	3
Total Hours		15

Total Program Hours: 65