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)

Automation Engineer Technology (http://www.jccc.edu/academics/credit/automation-engineer-technology/)

Associate of Applied Science Degree

Fall Semester

Technical Electives		3
NOTE: Technical electives are any courses with AUTO, CET, DRAF, ELEC, ELTE, HVAC, INDT or MFAB prefix		
AET 110	Industrial Maintenance	3
AET 122	Industrial Code	3
ELTE 110	AC/DC Circuits*	4
MATH 130	Technical Mathematics I* (or higher)	3
Total Hours		16

Spring Semester

AET 120	Industrial Fluid Power	3
AET 185	LAN Cabling and Installation	3
COMS 155	Workplace Skills	1
INDT 125	Industrial Safety/OSHA 30	3
MFAB 124	Introduction to Welding	3
MATH 131	Technical Mathematics II* (or higher)	3
Total Hours		16

Fall Semester

AET 140	Actuator and Sensor Systems*	3
AET 160	Programmable Logic Controllers I*	3
ELTE 225	Industrial Wiring I*	3
ENGL 121	Composition I*	3
Humanities/Art Elective^		3
Total Hours		15

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

Spring Semester

Technical Electives		3
NOTE: Technical electives are any courses with AUTO, CET, DRAF, ELEC, ELTE, HVAC, INDT or MFAB prefix.		
AET 240	Industrial Robotics*	3
AET 260	Programmable Logic Controllers II*	3
ELTE 250	Industrial Wiring II*	3
Social Science and/or Economics Elective		3
Total Hours		15

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

Total Program Hours: 62