ELECTRONIC CONTROL SYSTEMS TECHNOLOGY

ELECTRONIC CONTROL SYSTEMS TECHNOLOGY A.A.S.

Program Code: E.ECS.AAS

Associate in Applied Science (A.A.S.)

Graduation requirement — 60 semester hours

The Electronic Control Systems Technology program prepares students for entry-level positions in the installation, service, and repair of electrical and electronic systems used in manufacturing, automation, and process control. Students can expect to find employment as installers, technicians, and electrical support workers.

Program Notes*

- General Education electives are chosen from two of the following categories: communications, social/behavioral sciences, humanities/fine arts, mathematics, physical/life sciences. For more information, see General Education requirements on p. 63.
- MFX substitutions are accepted for MFT 113.
 MFT 113 = MFX 130 + MFX 131 + MFX 150 + MFX 151

Suggested Full-time Sequence

FALL SPRING SU	UMMER
1st Semester 2nd Semester 3r	rd Semester
CTC 132 ELT 134 ES	ST 113
CTC 193 ELT 155	
ELT 131 ELT 171	
ELT 150 MFT 117	
ELT 179 MAT 131	
MFT 113	
FALL SPRING	
4th Semester 5th Semester	
ELT 193 ELT 231	
ELT 292 ELT 293	
ELT 299 ELT 295	
ENG 101 or ENG 111 COM 103 or	
Gen Ed elec COM 120	
Gen Ed elec	

Required P	rogram Courses (45 hours)	Cr. Hrs.	
CTC 132	Computer Basics	1	
CTC 193	Windows		
ELT 131	Residential Wiring		
ELT 134	Motors, Controls, and Drives		
ELT 150	Introduction to Electricity and Electron		
ELT 155	Digital Control Systems		
ELT 171	Analog Control Systems		
ELT 179	Industrial Control Devices		
ELT 193	Electronic Systems Repair		
ELT 231	Programmable Controllers		
ELT 292	Process Control	3	
ELT 293	Industrial Control Networks		
ELT 295	Automation and Motion Control		
ELT 299	Robotics and Automation		
EST 113	Work Experience and Ethics		
MFT 113 MFT 117	Introduction to Hydraulics and Pneumat	ics 3	
IVIF I II/	Pumps, Compressors, and Vacuum Systems	2	
	vacuum systems	3	
Required General Education Courses			
(15 hours)			
ENG 101	Composition I		
or ENG 111	8	3	
COM 103	Introduction to Public Speaking		
	Interpersonal Communication		
MAT 131	Applied Mathematics		
General Educ	cation electives*	6	
Total Semest	ter Credit Hours	60	