

AUTOMATION AND CONTROLS AAS

The Automation & Controls program provides students with knowledge and skills in technical electrical and controls that are utilized in troubleshooting electronics, automation and manufacturing business operations.

- Automation and Controls AAS
- Degree Type: Associate's Degree
- Courses available in-person only at the Athens campus
- TSI: not required

This program leads to an Automation and Controls AAS degree

Course	Title	Hours
General Education		
ENGL-1301	Composition I	3
MATH-1314	College Algebra	3
Lang./Phil./Culture or Creative Arts		3
GOVT-2305	Federal Government (Fed Constitution) Constitution & Topics)	3
EDUC-1300 or PSYC-1300	Learning Framework or Learning Frameworks	3
Hours		15
Term One		
BCIS-1305	Business Computer Applications	3
MCHN-1320	Precision Tools and Measurement	3
DFTG-1310	Specialized Basic Computer Aided Drafting (cad)	3
ELPT-1311	Basic Electrical Theory	3
ELMT-1305	Basic Fluid Power	3
Hours		15
Term Two		
MCHN-2344	Computerized Numerical Control Programming	3
DFTG-1357	Specialized Intermediate Computer Aided Drafting	3
RBTC-1243	Vision Systems	2
ELPT-1341	Motor Control	3
Hours		11
Term Three		
INMT-1343	Computer Aided Design/Computer Aided Manufacturing	3
MCHN-2335	Advanced CNC Machining	3
ELMT-1301	Programmable Logic Controllers ((or TSTC ELPT 2319) P.L.C)	3
RBTC-2239	Robot Programming and Diagnostics	2
Hours		11
Term Four		
MCHN-1380	Machine Tool Technology/Machinist	3
Approved Elective		
RBTC-1241	Vision Systems	2

ELMT-2239	Advanced Programmable Logic Controllers (Capstone)	3
	Hours	8
	Total Hours	60

Approved Electives

Code	Title	Hours
ARCE-2344	Statics and Strength of Materials	3
DFTG-2340	Solid Modeling/Design	3