

INSTRUMENTATION AND CONTROLS TECHNOLOGY

Associate of Applied Science Degree

The classes in this program prepare students for careers as instrumentation and controls technicians. In the San Juan Basin, students with this degree are in demand to work in jobs such as automation technician in the oil field, controls technicians at local electric utility plants and refineries, and automation technicians for manufacturing. An instrumentation and controls technician will have a background in electrical, electronics and instrumentation disciplines.

Note: A student must earn a grade of C or higher in all courses required for the program in order to receive a degree.

1st Semester		Credits
COSC 125	Business Microcomputer Applications	3
ENGL 118	Technical Composition	3
INST 140	Applied Basic DC Circuits	3
MATH 113	Math for Technical Careers OR	3
MATH 115	Intermediate Algebra Applications	(4)
COMM 111	Interpersonal Communications	3
	Total	15-16
2nd Semester		Credits
INST 145	Applied Basic AC Circuits	3
INST 160	Digital Electronics	5
INST 190	Principles of Industrial Measurement	5
PHYS 111	Introduction to Physics	4
	Total	17
Summer		Credits
ENGL 218	Advanced Technical Composition	3
INST 235	ElectroMechanical Devices	5
	Total	8
3rd Semester		Credits
INST 144	National Electrical Code	3
INST 171	Motors and Controls	5
INST 180	Semiconductor Circuits	5
INST 271	PLC Applications	5
	Total	18
4th Semester		Credits
INST 220	Process Control	5
INST 265	Industrial Wiring	4
INST 284	Print Interpretation	3
	Humanities/Social Science Elective	3
	Total	15
	Total Credits	73-74