

**ASSOCIATE OF APPLIED SCIENCE  
INSTRUMENTATION AND CONTROLS TECHNOLOGY**

The classes in this program prepare students for careers as Instrumentation and Control Technicians. In the San Juan Basin students with this are in demand to work in jobs such as automation technician in the oil field, controls technician at local plants and refineries, and automation technicians for manufacturers. In the past decade, two crafts (Instrumentation and Industrial Electrician) have merged to form a new craft. This technician is called an Instrumentation and Controls Technician.

**NOTE:** A student must earn a grade of 'C' or higher in all courses in order to receive a degree or certificate.

			Credits		
			Hours	Grade	
<b>1st Semester</b>					
__	COSC	125	Business Microcomputer Applications	3	_____
__	ENGL	118	Technical Composition	3	_____
__	INST	140	Applied Basic DC Circuits	3	_____
__	MATH	115	Intermediate Algebra <b>OR</b>	4	_____
__	MATH	116	Math for High Tech Careers	3	_____
__	SPCH	111	Interpersonal Communications	3	_____
__	_____	_____	Humanities/Social Science Elective (See page 39, 2005-2007 catalog)	3	_____
<b>2nd Semester</b>					
__	INST	145	Applied Basic AC Circuits	3	_____
__	INST	190	Principles of Industrial Measurement	5	_____
__	INST	160	Digital Electronics	5	_____
__	PHYS	111	Introduction to Physics	4	_____
<b>Summer Session</b>					
__	ENGL	218	Advanced Technical Composition	3	_____
__	INST	235	Electromechanical Devices	5	_____
<b>3rd Semester</b>					
__	INST	141	National Electrical Code I	3	_____
__	INST	171	Motor and Controls	5	_____
__	INST	180	Semiconductor Circuits I	5	_____
__	INST	271	PLC Applications	5	_____
<b>4th Semester</b>					
__	INST	142	National Electrical Code II	3	_____
__	INST	220	Process Control I	5	_____
__	INST	272	Semiconductor Circuits II	5	_____
__	INST	284	Print Interpretation	3	_____

Total credit hours required for this degree is 77 or 78