

INSTRUMENTATION and CONTROLS TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE DEGREE
Catalog 2008-2009

The classes in this program prepare the students for careers in instrumentation and process control technology. Instrumentation technicians work on electronic instruments, electrical systems, pneumatic systems and computer-based process controls such as programmable logic controllers. San Juan Basin students with an Instrumentation and Process Control Technology degree are in demand to work in jobs such as automation technician in the oil field, controls technicians at local plants and refineries, and automation technicians for manufacturers.

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

				Credit Hours	Grade
1st Semester					
_____	COSC	125	Business Microcomputer Applications	3	_____
_____	ENGL	118	Technical Composition	3	_____
_____	INST	140	Applied Basic DC Circuits	3	_____
_____	MATH	115	Intermediate Algebra and Applications	4	_____
_____	SPCH	111	Interpersonal Communications	<u>3</u>	_____
			Total	16	
2nd Semester					
_____	INST	145	Applied Basic AC Circuits	3	_____
_____	INST	160	Digital Electronics	5	_____
_____	INST	190	Principles of Industrial Measurement	5	_____
_____	PHYS	111	Introduction to Physics	<u>4</u>	_____
			Total	17	
Summer Semester					
_____	ENGL	218	Advanced Technical Composition	3	_____
_____	INST	235	Electromechanical Devices	<u>5</u>	_____
			Total	8	
3rd Semester					
_____	INST	141	National Electrical Code I	3	_____
_____	INST	171	Motors and Controls	5	_____
_____	INST	180	Semiconductor Circuits I	5	_____
_____	INST	271	PLC Applications	<u>5</u>	_____
			Total	18	
4th Semester					
_____	INST	142	National Electrical Code II	3	_____
_____	INST	220	Process Control	5	_____
_____	INST	272	Semiconductor Circuits II	5	_____
_____	INST	284	Print Interpretation	3	_____
_____	_____	_____	Humanities/Social Science Elective*	<u>3</u>	_____
			Total	19	

Total credit hours required for this degree is 78

* See page 51, Humanities and Social Science Elective, 2008-2009 San Juan College catalog.