

INSTRUMENTATION and CONTROLS TECHNOLOGY  
Associate of Applied Science Degree  
Catalog 2009-2010

The classes in this program prepare students for careers in instrumentation and control 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 in order to receive a degree.

			<b>Credit Hours</b>	<b>Grade</b>
<b>1st Semester</b>				
_____	COSC 125	Business Microcomputer Applications	3	_____
_____	ENGL 118	Technical Composition	3	_____
_____	INST 140	Applied Basic DC Circuits	3	_____
_____	MATH 113	Mathematics for Vocational Students	3	_____
_____	SPCH 111	Interpersonal Communications	<u>3</u>	_____
		Total	16	
<b>2nd Semester</b>				
_____	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	
<b>Summer Semester</b>				
_____	ENGL 218	Advanced Technical Composition	3	_____
_____	INST 235	Electromechanical Devices	<u>5</u>	_____
		Total	8	
<b>3rd Semester</b>				
_____	INST 144	National Electrical Code	3	_____
_____	INST 171	Motors and Controls	5	_____
_____	INST 180	Semiconductor Circuits I	5	_____
_____	INST 271	PLC Applications	<u>5</u>	_____
		Total	18	
<b>4th Semester</b>				
_____	INST 220	Process Control	5	_____
_____	INST 265	Industrial Wiring	4	_____
_____	INST 284	Print Interpretation	3	_____
_____	_____	Humanities/Social Science Elective*	<u>3</u>	_____
		Total	15	

Total credit hours required for this degree is 78

\* See page 45, Humanities and Social Science Elective, 2009-2010 San Juan College catalog.

\*\* Prerequisite MATH 096 – Introductory Algebra.