

INSTRUMENTATION AND CONTROLS TECHNOLOGY

Instrumentation and Controls Technology offers an associate of applied science degree.

Applied Science Degree

The classes in this program prepare the students for careers in Instrumentation and 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 Control Technology degree are in demand to work in jobs as automation technicians in the oil field, controls technicians at local plants and refineries, and automation technicians for manufacturers.



Careers for Controls Technology Graduates



Instrumentation and Electrical (I&E) technicians are the people who install, maintain, and troubleshoot automated controlled processes. Today most plants (such as refineries, power generation, boiler operations, etc.) and manufacturing processes are controlled automatically. The need for Instrument/Electrical technicians is expected to grow as more industries relocate to San Juan County. A person with an associate degree in this discipline can expect a starting salary between \$35,000 and \$45,000 a year.

Local industry leaders such as Arizona Public Service, BP, El Paso Natural Gas, Oil and Gas Equipment, Vinson Supply, Williams Field Service and Border States Electric have been very supportive of this program. Through generous donations by these companies, our lab is equipped with standard and state-of-the-art equipment from manufacturers such as Allen Bradley, Bristol-Babcock, KimRay, Honeywell, Rosemont and Fisher.



Big on student success!

CONTACT INFORMATION

(505) 566-3402 or (505) 566-3513

www.sanjuancollege.edu



BEGIN YOUR FUTURE HERE TODAY

Hands on training: At SJC you will learn by doing. Our curriculum is lab oriented and supported by computer-based training. You will learn the skills that directly apply to industry.

Learn around your work schedule: Classes and labs are offered both day and evening to fit your busy schedule. You can take classes year round.

Experienced faculty: Classes and labs are taught by instructors with years of industrial experience and expertise.

Scholarships: There are ample scholarships from industry as well as federal and state grants available through the Controls department and SJC.

Technology is not just for men anymore: Not only do women have an excellent chance to succeed in the Controls program, they usually excel. More and more women are enjoying the challenge and benefits of today's high tech industries.

For more information: visit our website at www.sanjuancollege.edu/inst or contact:

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Recommended course sequencing for first-time students

1st Semester			Credits
COSC	125	Business Microcomputer Applications	3
ENGL	118	Technical Composition	3
INST	140	Applied Basic DC Circuits	3
MATH	113	Applied Math for Voc Students	3
SPCH	111	Interpersonal Communications	3
			Total <u>15</u> credits
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	4
			Total <u>17</u> credits
Summer Semester			
ENGL	218	Advanced Technical Composition	3
INST	235	Electromechanical Devices	5
			Total <u>8</u> credits
3rd Semester			
INST	144	National Electrical Code	3
INST	171	Motors and Controls	5
INST	180	Semiconductor Circuits	5
INST	271	PLC Applications	5
			Total <u>18</u> credits
4th Semester			
INST	220	Introduction to Process Control	5
INST	265	Industrial Wiring	4
INST	284	Print Interpretation	3
		Humanities/Social Science Elective	3
			Total <u>15</u> credits
			Total 73 credits

NOTE: A student must earn a grade of "C" or higher in all courses for the courses to count toward a degree or certificate.