

2007-08 Catalog: Programs of Study

Industrial Automation (5928)

Workforce Certificate

Through this program, you learn to install, operate, program, interface, service, troubleshoot and implement automated equipment and robotic systems for various applications. You gain tremendous expertise in electronics, industrial control circuits, instrumentation sensors, programmable logic controllers (PLCs), hydraulics and pneumatics.

In each course, you'll have the benefit of two instrumentation laboratories equipped with a full complement of today's advanced measurement and control devices. Over half the program is hands-on, which includes lab projects designed to interface with actual process applications set up in an applications lab.

This program does not provide a Florida state workforce certificate but does provide a Florida Community College certificate. Students can articulate to the certificate or college credit degree programs; contact the advisor for more information. This program incorporates the skills and experience needed for many industrial automation careers. The program is designed for students seeking the necessary hands-on experience of industrial automation. After completing the courses in this program the student can transfer to a college credit program.

Career Opportunities, Rapid Placement

Florida has more than 16,000 manufacturers employing more than 400,000, and the demand for more is high. And Florida Community College will refer you for internships and job interviews.

Annual Salaries

Entry level wage in industrial machinery and manufacturing in Florida averages \$17.10 per hour. Overtime, bonuses, rapid advancement and opportunities for self-employment can rapidly increase your income.

Application Procedure

This program does not provide a Florida state workforce certificate but does provide a Florida Community College certificate. After completing the courses in this program, students can articulate to the certificate or college credit degree programs.

The Test of Adult Basic Education (TABE) is a major criterion in a student's completion of the program. Students who fail to meet the State of Florida's designated exit score will be required to complete the Vocational Preparatory Instruction (VPI). In order to complete the program successfully, students must achieve or surpass the designated exit score(s). See [Standards of Academic Progress](#).

Basic minimum skill levels in math, reading, and language must be attained in order to complete this program. Students wishing to enter this program of study should be advised by the instructor or program manager prior to enrollment in these courses.

Applicants must:

1. Be accepted for admission to Florida Community College.
2. Provide a high school completion transcript or copy of GED test scores.
3. Show completion of TABE (Test of Adult Basic Education). For TABE information, call 904.633.8388.

Students wishing to enter this program should be advised by the instructor or program manager prior

to enrollment in these courses.

Cost

Estimated cost of tuition is \$1,572 (tuition rated for Florida residents, as of 7/06). Contact the program manager for additional costs (materials, fees, textbooks).

Need More Information? Contact:

Lance Wallace, Advanced Technology Center, 904.598.5676

Curriculum

Course Number and Title	Contact Hours	Workforce Credits
Professional Courses		
* VPI 0100 Basic Reading Skills		
* VPI 0200 Basic Mathematical Skills		
* VPI 0300 Basic Language Skills		
EEV 0031 Survey of Electronics	60	2.00
or EEV 0125 Electronics Theory/DC Circuits	30	1.00
and EER 0936 Technical Career Exploration	30	1.00
EEV 0271 Testing Equipment Used in the Electrical and Instrumentation Fields	50	1.50
BCV 0663 Motors and Controls	60	2.00
EEV 0175 Industrial Wiring	60	2.00
EER 0471 Industrial Electronic Technology	60	2.00
EEV 0332 Introduction to PLCs	60	2.00
EEV 0588C Fiber, Voice and Data Cabling	60	2.00
EEV 0623 Basics of Instrumentation	60	2.00
EEV 0761 Robotics - Mechanics and Control	50	1.50
EEV 0624 Instrumentation Process for Measurement and Control	60	2.00
EEV 0625 Instrumentation Systems Using Programmable Logic Controller (PLC) Applications	60	2.00
EEV 0626 Instrumentation System Graphics	60	2.00
EEV 0628 Instrumentation System Troubleshooting	60	2.00
EEV 0629 Instrumentation Documentation and NICET/ISA-CCST Certification Exam Preparation	60	2.00
Total Contact Hours	820	27.00

*Students who have satisfactory test scores are not required to take these courses.

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To request information, contact the Learner Support Center at info@fccj.edu or 904.646.2300.

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