

## CURRICULUM

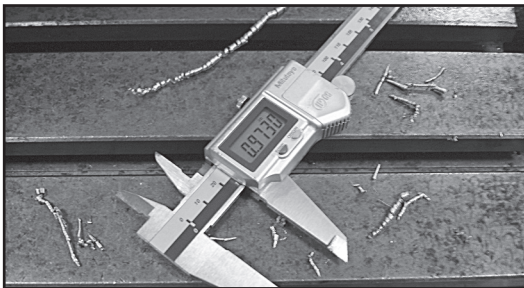
This curriculum is designed to prepare or up-grade individuals to service, maintain, repair, or install equipment for a wide range of industries. Instruction includes theory and skill training needed for inspection, testing, troubleshooting, and diagnosing industrial equipment and physical facilities.

Students will learn technical skills in blueprint reading, electricity, hydraulics/pneumatics, machining, welding, and various maintenance procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of any of the various levels of this curriculum, graduates should gain the necessary practical skills and related technical information to qualify for employment or advancement in the various areas of industrial systems technology.

## JOB OUTLOOK

Demand for Industrial Systems technologists remains high, and for specialists in particular, and is projected to grow over the next decade. VGCC graduates have traditionally had great success finding good jobs. Job titles of IST graduates can vary widely, including Industrial Maintenance Technician, Production Equipment Technologist, Industrial Troubleshooter, Machinist apprentice, hydraulic technician, Millwright, industrial planner, and Machine design apprentice.



## ABOUT THE PROGRAM

IST classes are offered both during the day and at night at Main Campus.

## TESTIMONIAL

IST student Dr. Gary D. Faulkner of Oxford, a retired North Carolina State University math professor, entered the program specifically to learn about the machine shop for personal use. But he was so impressed with program head Robert Hudson, whom he calls an "excellent teacher," that he soon took other courses. "I would recommend Robert Hudson's program to recent high school graduates, to people who want to re-tool or get a new job, or to people who just want to expand their knowledge and want a good learning experience," Faulkner says.

## FACILITIES

Students have the opportunity to work on a variety of sophisticated equipment, representing machinery that might be found in virtually any facility in the area.

Much of the class work is also done on computer, including a newly purchased software program that allows students to create computer models to study hydraulics.

## ADVANTAGES OF ATTENDING VGCC

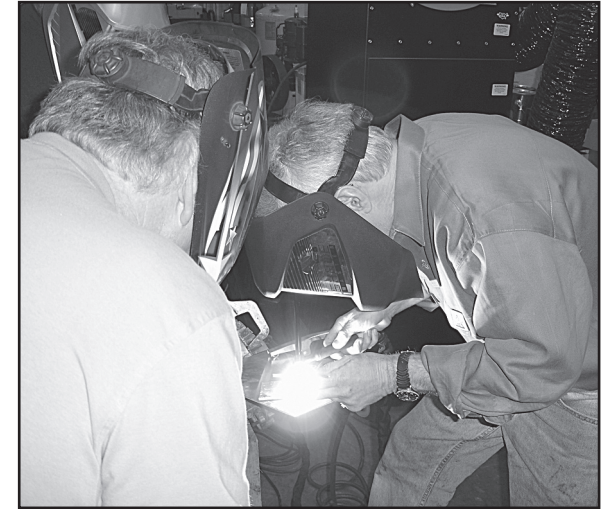
Vance-Granville offers quality instruction at very reasonable cost. Small faculty-to-student ratios insure each student's needs are attended to.

## TUITION AND FEES

VGCC makes quality education affordable. Financial aid and scholarships are available. Contact the VGCC Financial Aid office at (252) 738-3284.

## FOR MORE INFORMATION

Robert C. Hudson, Program Head  
hudson@vgcc.edu • (252) 738-3211



## COURSE SEQUENCE

FALL SEMESTER		CREDITS
BPR 111	Blueprint reading	2
ELC 112	DC/AC Electricity	5
MEC 111	Machine Processes I	3
MNT 110	Intro Maintenance	2
WLD 112	Basic Welding Processes	2
ENG 101	Communications	3
MAT 101	Mathematics I	3
SPRING SEMESTER		
MEC 112	Machine Processes II	3
ELC 117	Motors and Controls	4
MEC 165	Fabrication Tech.	2
MNT 111	Maintenance Practices	2
MNT 240	Equipment Troubleshooting	2
MEC 160	Mech. Ind. Systems	2
PHY 101	Physics I	4
SUMMER SEMESTER		
ELC 128	Intro to PLC	3
ISC 110	Workplace Safety	1
HYD 110	Hydraulics/Pneumatics	3
<b>DEGREE TOTAL</b>		<b>46</b>

*This sequence is an example for students taking classes during the day. Classes are also offered at night, which students can complete in approximately 4 years. New students may enter each semester. Only 2 courses have pre-requisites.*

## CAMPUS LOCATIONS

Vance-Granville Community College provides educational opportunities for the residents of Vance, Granville, Franklin and Warren counties. To be as convenient as possible for those residents, VGCC has a campus located in each of those counties. The majority of classes are taught on Main Campus between Henderson and Oxford, but a number of students attend classes also at South Campus between Butner and Creedmoor, Franklin Campus in Louisburg, and Warren Campus in Warrenton.

### Main Campus

P.O. Box 917, Henderson, N.C. 27536  
**(252) 492-2061**

### Franklin Campus

P.O. Box 777, Louisburg, N.C. 27549  
**(919) 496-1567**

### South Campus

P.O. Box 39, Creedmoor, N.C. 27522  
**(919) 528-4737**

### Warren Campus

P.O. Box 207, Warrenton, N.C. 27589  
**(252) 257-1900**

*Vance-Granville Community College is an equal opportunity, affirmative action institution. The College serves all students regardless of race, creed, color, sex, national origin, or disabling conditions.*

*Vance-Granville Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, 30033-4097; Telephone number 404-679-4501) to award the associate degree.*

Rev. 10/07

**VANCE-GRANVILLE**  
COMMUNITY COLLEGE

P.O. Box 917  
Henderson, N.C. 27536

# Industrial Systems Technology



Diploma  
One Year - 46 Credit Hours

  
**VANCE-GRANVILLE**  
COMMUNITY COLLEGE

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<http://www.vgcc.edu>