

# **WELCOME WCPSS COUNSELORS AND CDCs**

**APPLIED TECHNOLOGIES  
OPPORTUNITIES**

**&**

**OPTIONS**

**March 15, 2007**



**APPLIED TECHNOLOGIES**

*College for the Real World*

# Why Applied Technologies?

- Would you agree our programs are hands-on and lab oriented, which means we use applied instructional methods to teach?
- Technology is in most program names, should we not be called Technologies?
- APPLIED TECHNOLOGIES sounds GOOD?

# Other Considerations:

- Applied Technologies puts us more in line with the other community colleges.
- Wake County Public School System and NC Department of Public Instructions changed from Vocational Education to Career and Technical Education (CTE) several years ago. Today CTE programs are stronger than ever.

# Applied Technologies Eleven Departments

- Air Conditioning, Heating, and Refrigeration Technology
  - Mike Sadtler (Dept. Chair), Carl Roda, Bruce Cantrell
- Automotive Systems Technology
  - Kenneth Betancourt (Dept. Chair), Gerry Egan, Larry Hunter, Matt Shouse, Rich Cregar
- Basic Law Enforcement Training
  - Walt Stewart, Kent Hobbs (Coordinators)

# Applied Technologies Eleven Departments

- Construction Management Technology
  - Gary Randall (Dept. Chair)
- Electrical/Electronics Technology
  - Gary Randall (Dept. Chair), Richard Moore
- Heavy Equipment and Transport Technology
  - Ronald Lowe (Dept. Chair), Roger Brock, Paige Kearns
- Industrial Systems Technology
  - James Melton (Dept. Chair)

# Applied Technologies Eleven Departments

- Machining Technology; Machining Technology – Tool, Die, and Mold Making
  - Alan Woodlief (Dept. Chair), Sam Wells
- Mechanical Drafting Technology
  - Patricia Godin-Healey (Dept. Head), Rodney Duke
- Plumbing
  - Rick Worley (Dept. Head)
- Welding Technology
  - Bennett Rowland (Dept. Chair), Tony Anderson

# Applied Technologies Eleven Departments

- 15 Certificates
- 9 Diplomas
- 9 Associate of Applied Science Degrees

# What Do They Do ?

- **Air Conditioning, Heating and Refrigeration Technician** – is trained in the basic skills to design, install, and service air conditioning, heating and refrigeration equipment in the residential and light commercial applications. AHR Technician's job is to keep people comfortable, their drinks cold, and their food preserved.
- **Automotive Systems Technician** – is trained in the basics from bumper-to-bumper and progressively moved to the more advanced technology. With so many electronics and computers integrated into vehicles, today's technician jobs are high-tech and challenging.
- **Basic Law Enforcement Training (BLET)** – graduates from this certificate program have gained the essential skills required for entry-level employment as law enforcement officers with the state, county, or municipal governments, or with private enterprise.

- **Construction Management** – these individuals are referred to as project managers, superintendents or foremen. They receive training in safety, planning, scheduling, cost control, productivity, human relations, estimating, building codes, blueprint reading and construction supervision. The A.A.S. Degree program will begin fall semester 2007.
- **Electrical/Electronics (Electrician)** – is trained in the installation and maintenance of electrical systems found in residential, commercial and industrial facilities. Training includes such topics as AC/DC theory, electrical wiring practices, National Electric Code, motors and controls, programmable logic controllers and more.
- **Heavy Equipment Technician** – is trained in the basic knowledge and skills needed to troubleshoot and repair diesel engines, electrical and hydraulics systems. A concentration of construction equipment courses includes transmissions, brakes, undercarriage, and equipment repair.

- **Industrial Systems Technician** – is trained in the basic knowledge and skills needed to troubleshoot, repair and perform maintenance for industrial settings. Types of equipment include power transmission, pumps and piping systems, HVAC systems, boilers, air compressors and electro-mechanical-fluid power systems.
- **Machinist** – is trained to meet the needs of industry in all aspects of manufacturing. Training includes machining, CNC (Computer Numerical Control) Machining, Model Making, Tool Making, Maintenance Machining, and other areas of manufacturing.
- **Mechanical Drafter** – is trained in the knowledge and skills required to produce a wide variety of CAD (Computer Aided Drafting) working drawings. These drawings range from simple two-dimensional maps to complex solid modeling. Drafters learn to visualize and produce blueprints which accurately and legally describe many items such as tool and die devices, HVAC systems, gears, cams, bolts and threads/fasteners.

- **Plumber** – is trained in the basic knowledge and skills to assist with the installation and repair of plumbing systems in residential and light commercial applications. Course work includes sketching diagrams, interpretation of blueprints, and practicing in plumbing assembly. They also gain knowledge of state plumbing codes and requirements. The modern day plumber must be creative and be able to think through problems, keeping in mind every building and job is different.
- **Welder** – is trained in the basic knowledge and skills needed to weld in all major welding processes and certification practices. Work Safety, MIG, TIG, STICK, PLATE, Orbit Welding, Combination Welding, Inspection and Blueprint Reading are among the topics most employers expect a welder to master. Certification in all processes of welding is available upon completion of courses.

# Applied Technologies Scholarship Opportunities

- Wake Tech Retirees Association
- Home Builders Association of Raleigh/Wake County
- Custom Brick Company Endowed
- Bryant-Durham Electric Company
- Crowder Construction
- Bridgestone/Firestone

# Opportunities Continued

- Wake County New Vehicle Dealers Association
- General Contractor Association of Raleigh
- Progress Energy Foundation
- Tech Electric
- Waste Industries
- Gregory Poole Equipment Co.
- Service Roofing and Sheet Metal
- President Bruce I. Howell

# **APPLIED TECHNOLOGIES DIVISION**

**Merit Scholarships Currently Total**

**\$40,000.00**

# Applied Technologies Options

- N.C. High School to Community College Articulation Agreement
- Concurrent (Dual) Enrollment
- Huskins
- Matriculation Agreements with East Carolina University

# What is a Matriculation Agreement?

- Some refer to it as a 2+2 agreement.
- Basically Students take a selected Technical Associate of Applied Science Degree at Wake Tech. Students would take a total of 26 SHC in College Transferable General Education Courses. They would also receive a block transfer of 37 SHC for technical courses = 63 SHC

# Matriculation Agreements

- Air Conditioning, Heating and Refrigeration Technology
- Automotive Systems Technology
- Electrical/Electronics Technology
- Heavy Equipment and Transport Technology
- Industrial Systems Technology

# Matriculation Agreements Continued

- Machining Technology
- Machining Technology Tool Die and Mold Making
- Mechanical Drafting Technology

# What is in the Future for Applied Technologies?

- Cosmetology?
- Esthetics Technology?
- Manicuring/Nail Technology?