

Did you know?

CAFETERIA

Randolph County Development Center
Breakfast and Lunch served.
(See bulletin boards or the website for menus and prices.)

GYM & WEIGHT ROOM

Law Enforcement Training Academy.
The gym and weight room are available to BRTC students and staff, M-F, at various times. Schedules will be posted outside of the gym. For more information, phone 870-248-4190.

AUTO REPAIR

Mechanical service and body work, including paint jobs, are available on 1994 models and up. See instructors for details on this "cost-recovery" service.

CHILD CARE

Free child care for qualifying BRTC students. Call 870-892-7755 for more information.

TUTORING

Math and English tutors are available for all BRTC students on the Pocahontas campus. Tutoring hours are posted outside of tutoring room (AD132).



Black River Technical College seeks to be in compliance with both the spirit and the letter of the law as stated in Section 504 of the Rehabilitation ACT, as amended, and the Americans with Disabilities Act. Students seeking ADA accommodations must contact Rachel Koons, P.O. Box 468, Pocahontas, AR 72455. Phone 870-248-4000, ext 4014, or fax 870-248-4100, or e-mail rachel.koons@blackrivertech.org.

Contact must be made two weeks prior to the beginning of each enrollment period.

BRTC Recruitment Office
P.O. Box 468 - 1410 Highway 304 East
Pocahontas, AR 72455
870-248-4000, ext. 4157

www.blackrivertech.edu

P.O. Box 1565 - 1 Black River Drive
Paragould, AR 72450
870-239-0969

Black River
TECHNICAL COLLEGE

Industrial Electricity/ Electronics



Black River Technical College
Dream It...Believe It...Achieve It...



"Facebook is a registered trademark of Facebook, Inc."

Industrial Electricity/Electronics

About the Program

The Industrial Electricity/Electronics program is designed to prepare students for jobs that require knowledge of the operation, installation, and repair of electrical machinery and electronic devices. For those in pursuit of an Electrician's license the program also provides a basic foundation of electrical wiring knowledge and the application of National Electric Code rules. This 9-month course of instruction is not aimed at one particular area of the electrical world, but encompasses all the major areas of both the electrical and electronic fields of study.

During the first semester students in the I.E.E. program learn about the nature of electricity, the laws governing it, and safety considerations necessary to working with electricity. Blueprint reading, installation of load centers, branch circuit wiring, and the common light and receptacle circuits are practiced with hands on in the lab, while in other classes the understanding of various electrical and electronic parts is studied.

During the second semester various electrical motor control circuits are studied, wired, and then tested. The operation of DC and AC motors is plainly shown in classroom exercises and lab demonstrations. It is also during this semester that the student uses his new knowledge of electronic parts and actually designs and builds various electronic circuits. Troubleshooting is a major consideration during both semesters.

Through the study and building of power distribution systems, motor control circuits, installation of AC and DC motors and over-current protection devices, and Programmable Logic Control systems, the student becomes a valuable asset to almost any industry or technical field of work.

Roughly half the student's time is spent in laboratory surroundings designing, building, and testing various electrical and electronic circuits. State-of-the-art test instruments are at the student's disposal throughout the course.

One-Year Certificate

First Semester	Credits
ELT 1103 Basic Electricity/Electronics	3 hours
ELT 1204 AC/DC Fundamentals	4 hours
ELT 1406 Industrial Electrical Systems	6 hours
MTH 1043 Technical Math	3 hours
Total Hours:	16 hours

Required Courses

Second Semester	Credits
ELT 1304 Motors and Motor Controls	4 hours
ELT 1506 Electronic Circuits	6 hours
ELT 1604 Programmable Logic Control Tech.	4 hours
ENG 1003 Freshman English I OR	3 hours
SCOM 1203 Oral Communications OR	
COM 1013 Career Communications	
Total Hours:	17 hours

(Program is subject to change.

Please check with Academic Advisor.)

Career Opportunities

The wide diversity of electrical applications opens many fields to our graduates. Job opportunities at an entry-level position for those skilled in the knowledge of electricity and electronics are expected to be excellent in the coming years, and the demand for trained workers in these fields is projected to continually increase. New construction, installation, and testing of electrical systems is found almost everywhere today, whether it be for industrial, commercial, or private enterprise. Factory maintenance, equipment installation and trouble shooting services, appliance repair, electric power line work, and shipboard electrical service are but a few of the more common lines of work our graduates find.

