

Did you know?

CAFETERIA

Randolph County Development Center
Breakfast and Lunch served.
(See bulletin boards or the website for menu
and lunch hours.)

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).



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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

Machine Shop



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

Machine Shop

About the Program

The Machine Shop program provides training in techniques and mechanics of the machine shop trade and develops skills and abilities to an acceptable employment level as an apprentice tool and diemaker or machinist.

Students will use machine tools such as lathes, surface grinders, and milling machines to gain practical knowledge in producing precision metal parts. Different metals, such as cold rolled steel, tool steel, aluminum and brass are used to produce a one-of-kind item or several quantities of one part. The machinist must calculate, measure, mark, and select tools and materials to complete the task. Machinists must monitor the speed and feed of a machine. In addition, the equipment used in the process must be monitored for proper lubrication and coolants.

Computer numerically controlled (CNC) machine tools are gaining popularity in the workplace. These machines contain computers that require data entry skills from the machinist. Since the introduction of CNC machine tools, the machinist is able to produce a part to a higher degree of accuracy.

Students gain hands-on experience with the industrial size CNC equipment as an important part of their training.

(Program is subject to change.

Please check with Academic Advisor.)

First Semester	Credits
MEH 1103 Introduction to Machine Process	3 hours
MEH 1203 Basic Blueprint Reading	3 hours
MEH 1206 Basic Lathe Operations	6 hours
MTH 1203 Technical Math OR MATH 0023 Introductory Algebra (or higher)	3 hours
Total Hours:	15 hours

Required Courses

Second Semester	Credits
ENG 1003 Freshman English I OR SCOM 1203 Oral Communications OR COM 1013 Career Communications	3 hours
MEH 1303 Metals and Alloys/Basic Diemaking	3 hours
MEH 1406 Basic Mill Operation	6 hours
MEH 1503 Fundamentals of CNC	3 hours
Total Hours:	15 hours

Career Opportunities

Employment opportunities will increase for machinists, as employers continue to report difficulties in finding trained workers with the necessary skills and knowledge to fill machining and tool programming openings.

Qualifications for tool programmers and machinists vary widely depending upon the complexity of the job. Employers prefer skilled machinists, tool and diemakers, or those with technical post-secondary training.

Many job openings will arise each year from the need to replace experienced machinists and programmers who transfer to other occupations or retire. The number of openings for machinists is expected to be far greater than the number of openings for machine programmers.

