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## Career-Technical Scholarship

For graduates of schools having an Articulated Training Agreement with Pearl River Community College, full tuition and half tuition scholarships will be awarded to entering career-technical freshmen who meet the following qualifications:

- High school diploma
- Completed a two-year career-technical program in high school
- Enroll full time (within a year after high school graduation) in a career-technical program at PRCC
- Full tuition scholarships require overall "B" average or above in high school
- Half tuition scholarships require overall "C" average in academic courses with an "A" average in career-technical program courses in high school

## Requirements for Admission

- Official copy of high school transcript or official copy of GED scores
- Completed application of admission (also available online at [www.prcc.edu](http://www.prcc.edu))
- College/University transcript (if applicable)
- ACT scores (for students pursuing the Associate in Applied Science degree)

Submit the above documents to:

Office of Admissions  
Pearl River Community College  
101 Highway 11 North  
Poplarville, MS 39470

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## Why College?

Research shows that education pays. Students who complete associate degrees and certificates are more likely to move into professional positions with higher earnings. Students with a solid education beyond high school can expect to earn an average of \$250,000 more than people with only a high school diploma.

## Need More Information?

Kenny Adams, Instructor  
Machine Shop Technology  
Pearl River Community College  
101 Highway 11 North  
Poplarville, MS 39470  
(601) 403-1262  
[kadams@prcc.edu](mailto:kadams@prcc.edu)

Career-Technical Education  
Pearl River Community College  
101 Highway 11 North  
Poplarville, MS 39470  
(601) 403-1241

visit our website at  
[www.prcc.edu](http://www.prcc.edu)



*Pearl River Community College offers equal education and employment opportunities. We do not discriminate on the basis of race, religion, color, sex, age, national origin, veteran status, or disability.*

*Any person needing to request accommodations, special assistance, or alternate format publication, please contact the ADA Coordinator's office at 601-403-1260.*

*PRCC reserves the right to alter or change any statement contained herein without prior notice.*

*Brochure revised: December 20, 2009*

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## Machine Tool Operation/ Machine Shop Technology

### Poplarville Campus



*Where your future begins*

## About the Program

The Machine Tool Operation/Machine Shop Technology Program at Pearl River Community College is a study of the process of using machine tools (manual and CNC) to manufacture useful products.

Machine Tool Operation/Machine Shop Technology is a two-year program of study designed to lead to an Associate in Applied Science Degree or a Certificate of Proficiency.

The program prepares students to be employed as entry-level precision machinists, general machinists and or machine tool operators. The curriculum prepares individuals to shape metal parts on machines such as lathes, grinders, drill presses, and milling machines. Instruction in making computations related to work dimension, testing, feeds, and speeds of machines; using precision and gauges; machining and heat-treating various metals; and laying out machine parts is also included. Also included is instruction in the operation and maintenance of computerized equipment.

Applicants for the Machine Tool Operation/Machine Shop Technology Program must have a high school diploma or a GED.

## Career Opportunities in the Field

The demand for machine tool technicians and operators is good. The U.S. Bureau of Labor Statistics ranks machine tool technology seventh in the top ten occupational areas on the basis of net life earnings. At present, graduates can enter the machining field with earnings of \$20,000 to \$25,000 a year and progress based on performance. Jobs are available in South Mississippi and throughout the country.

## MACHINE TOOL OPERATION/ MACHINE SHOP TECHNOLOGY

### Associate of Applied Science Degree

#### GENERAL EDUCATION CORE REQUIREMENTS:

	HRS
ENG 1113 English Composition I .....	3
Mathematics/Science Elective .....	3
Oral Communication Elective.....	3
Humanities/Fine Arts Elective .....	3
Social/Behavioral Science Elective.....	3
Total.....	15

#### MAJOR COURSE REQUIREMENTS:

MST 1313 Machine Tool Mathematics .....	3
MST 1413 Blueprint Reading.....	3
MST 1115 Power Machinery I.....	5
MST 1125 Power Machinery II.....	5
MST 1613 Precision Layout.....	3
MST 1423 Advanced Blueprint Reading.....	3
MST 2145 Power Machinery III.....	5
MST 2714 Computer Numerical Contr. Operations I..	4
MST 2144 Power Machinery IV .....	4
MST 2725 Computer Numerical Contr. Operations II.	5
MST 2813 Metallurgy.....	3
Approved Technical Elective.....	3
Computer Science Elective.....	3
Total.....	49
TOTAL CREDIT HOURS .....	64

#### APPROVED TECHNICAL ELECTIVES:

CPT 1113 Fundamentals of Microcomputer Applications
DDT 1114 Fundamentals of Drafting
DDT 1313 Principles of CAD
MST 1113 Introduction to Machine Shop Technology
MST 291(1-3) Special Problem in Machine Tool Tech.
MST 292(1-6) Supervised Work Experience in Machine Tool Technology



## MACHINE TOOL OPERATION/ MACHINE SHOP TECHNOLOGY

### Certificate of Proficiency

#### MAJOR COURSE REQUIREMENTS:

	HRS
MST 1313 Machine Tool Mathematics .....	3
MST 1413 Blueprint Reading .....	3
MST 1115 Power Machinery I.....	5
MST 1125 Power Machinery II .....	5
MST 1613 Precision Layout .....	3
MST 1423 Advanced Blueprint Reading.....	3
MST 2145 Power Machinery III .....	5
MST 2714 Computer Numerical Contr. Operations I..	4
MST 2144 Power Machinery IV.....	4
MST 2725 Computer Numerical Contr. Operations II.	5
MST 2813 Metallurgy .....	3
Approved Technical Electives .....	6
Computer Science Elective .....	3

TOTAL CREDIT HOURS..... 52

#### APPROVED TECHNICAL ELECTIVES:

DDT 1114 Fundamentals of Drafting
DDT 1313 Principles of CAD
MST 1113 Introduction to Machine Shop Technology
MST 291(1-3) Special Problem in Machine Tool Tech.
MST 292(1-6) Supervised Work Experience in Machine Tool Technology