



MOTORCYCLE, ATV AND PERSONAL WATERCRAFT TECHNOLOGY

LINCOLN CAMPUS

Diploma

www.southeast.edu/MotorcycleTech



Start an exciting career repairing some of our favorite vehicles! Once you start working, you can choose to specialize in one type of vehicle or aspect, such as motorcycles, from a specific manufacturer. The job outlook is positive and continues to grow.

Program Overview:

This program prepares students for careers in motorcycle, all-terrain-vehicle and personal watercraft diagnosis and repair. Classes begin in the Winter and Summer quarters.

Types of jobs available:

Repair technician - Diagnoses and repairs all areas of the vehicle, including engines and transmissions, suspension and brake systems, and electrical/electronic systems.

Parts counter person - Activities in this area include researching service information using manuals or computer-based programs, using an extensive array of hand tools and diagnostic equipment, as well as writing, speaking, and basic math skills.

Sales associate - Program graduates are employed in dealerships, independent shops and owner/operator shops.



Graduate Earnings

Recent graduates report a starting wage of \$12.60 per hour.

For more information contact:

Ken Jefferson, Program Chair
402-437-2640, 800-642-4075 ext. 2640
kjeffers@southeast.edu

or the College Admissions Office
Lincoln 402-437-2600, 800-642-4075 ext. 2600

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Required Diploma Courses:

A grade of "C" or higher is required in all MSTT courses to graduate from the program. Course offerings and prerequisites will be determined by the program.

Course #	Course title	Credit hrs
MSTT1000	Shop Procedures & Hand Tools	5.5
MSTT1112	Basic Engine Theory	5.5
MSTT1120	Wheels & Tires	3.0
MSTT1125	Electrical Concepts	6.0
MSTT1126	Electrical Circuits	7.0
MSTT1128	Frames, Suspension & Brakes	5.5
MSTT1132	Fuel & Ignition Systems	5.0
MSTT1133	Periodic Maintenance and Emission Controls	7.5
MSTT1138	Personal Watercraft	3.0
MSTT1140	Transmissions and Final Drives	3.5
MSTT1143	Motorcycle Engine Machining and Rebuild	7.0
MSTT1146	Rideability and Electrical Update or	
MSTT1901	Rideability and Electrical Update with Coop	6.0
WELD1176	Automotive and Motorcycle Welding	2.5
		67.0 hours

Optional:

MSTT1113	Metric Measure	3.0
MSTT1001	Introduction to Motorcycle Technology	3.0

General Education Requirements:

Contact your program advisor to select general education courses from each category which meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below, four classes total).

Oral Communications	4.5
Written Communications	4.5
Science	6.0
PHYS1150 Descriptive Physics	
Advisor Approved Elective	4.5
19.5 hours	



Basic Tools - Required by 4th week

WRENCHES

- 1 Adjustable wrenches 10"
- 1 set Combination wrench set (Metric - 6mm-19mm)
- 1 set Combination wrench set (Standard - 3/8"-1")
- 1 set Flare nut wrench (Metric - 9mm, 10mm, 11mm, and 12mm)

SOCKETS

- 1 set 1/4" drive extension 2" to 6"
- 1 set 1/4" drive sockets (metric)
- 1 set 1/4" drive sockets (standard)
- 1 1/4" drive ratchet
- 1 3/8" drive breaker bar
- 1 set 3/8" drive deep socket (metric - 6mm-19mm)
- 1 set 3/8" drive deep socket (standard - 3/8"-3/4")
- 1 set 3/8" drive extensions 3" to 24"
- 1 set 3/8" drive impact socket (metric - 9mm-19mm)
- 1 set 3/8" drive impact socket (standard - 3/8"-3/4")
- 1 set 3/8" drive long hex bit (metric - 4mm-10mm)
- 1 3/8" drive ratchet
- 1 set 3/8" drive socket 6mm-19mm
- 1 set 3/8" drive socket 3/8"-3/4"
- 1 3/8" drive spark plug sockets 5/8", 13/16 and 18mm
- 1 3/8" drive speed handle

SCREWDRIVERS

- 1 set assorted sizes 1"x1/4" to 13"x1/2" flat blade including stubby
- 1 set Magnetic ratcheting screwdriver (with common and #1, #2, #3, Phillips bits, and Torx drive bits, 10, 15, 20, 25, 27, 30, 40)
- 1 set Phillips #1, #2, #3 including stubby

PLIERS

- 1 Adjustable pliers 10" "tongue & groove type"
- 1 Diagonal cutting pliers
- 1 set Locking pliers (3), small, medium, large
- 1 Needle nose pliers with side cutters
- 1 Slip joint pliers
- 1 set Snap ring pliers, inside-outside combination (3), small, medium, large

HAMMERS

- 1 16 oz. Ball peen hammer
- 1 16 oz. Soft face hammer dead blow style

PUNCHES, CHISELS & FILES

- 1 Center punch
- 1 Brass drift punch
- 1 set Pin punch 3/32" to 5/16"
- 1 1/4" Cold chisel
- 1 3/8" Drift Punch 12"
- 1 1/2" Cold chisel

ELECTRICAL METERS & TESTERS

- 1 Continuity tester light
- 1 Fluke 88 Digital multimeter
- 1 12 volt test lamp

MISCELLANEOUS

- 1 Aligning pry bar 15" or 16"
- 1 set Allen wrench (metric - 1.5mm-10mm)
- 1 set Allen wrench (standard) up to and including 3/8"
- 1 Extension magnet—small
- 1 set Feeler gauges, metric and fractional
- 1 set Files (flat mill, assorted sizes, rat tail and half round)
- 1 Hand impact driver with #1, #2, #3 Phillips
- 1 Hacksaw
- 1 Pick set
- 1 pair Safety glasses
- 1 set Spark plug wire gauge
- 1 3/8" drive air impact gun
- 1 3/8" drive torque wrench (ft/lb - 10 to 70 ft. lb.)
- 1 6" steel ruler, metric and fractional
- 1 Tank Protector Cover
- 1 Soft jaws for 4" vice
- 1 6" Caliper (dial or digital preferred)
- 1 Pen light

TOOL STORAGE

- 1 Roll Cabinet Tool Box: Maximum length 42" (7500 Cubic Inch & five drawers minimum) (Not included with most price lists.)

OPTIONAL

- 1 Brake Pad Spreader
- 1 Oil filter wrench set
- 1 Automatic Center Punch
- 1 set Narrow feeler gauges (0.002" - 0.014")
- 1 Axle Hex Wrench - (17, 19, 22, & 24mm)
- 1 1/2" drive sockets - 21, 22, 24, 27, 30, 32, & 34 mm
- 1 Blow gun
- 1 1/2" Impact Gun
- 1 1/2" Breaker bar
- 1 set 3/8" drive universal flex socket (metric - 10mm- 19mm)
- 1 set 3/8" drive short hex bit (4mm - 10mm)

Estimated Expenses

To determine overall costs, students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

Nebraska Resident tuition rate is \$61.50 per credit hour. Out-of-state tuition rate is \$75.50 per credit hour.

Student fee is \$1.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Quarterly tuition, books and fees are dependent upon classes taken.

FIRST QUARTER

Tuition And Fees	\$1,449
Books	232
Tools/Supplies	2,550- 4,000
(a basic tool set is required)	
Total First Quarter	\$4,231-5,681

SECOND QUARTER

Tuition And Fees	\$1,418
Books	117
Total Second Quarter	\$1,535

THIRD QUARTER

Tuition And Fees	\$1,260
Books	160
Total Third Quarter	\$1,420

FOURTH QUARTER

Tuition And Fees	\$1,323
Books	100
Total Fourth Quarter	\$1,423

Field Trip	160
Total Estimate For Program	\$8,769-10,219

A tool set is required for successful completion of the program. Tools may be purchased from a vendor of the individual's choosing. Vendors are available and offer students a discount. The discounts are determined by each vendor. The cost of tools varies depending on which vendor is selected.

Students are required to wear program shirts while in class or in the lab. Shirts are available from the SCC Lincoln Campus Bookstore.

First quarter loan checks are received by the student 30 days after the beginning of the quarter. Complete your financial aid by the early deadline date so you can be awarded. Carefully prepare your personal budget so your financial aid can apply toward the tool expense.

NOTE: Field Trip - Students will be touring the International M/C New Model Show in spring quarter, not to exceed \$160. The cost of the field trip is included in the total.