

2018-2019

SOUTHEAST
COMMUNITY
COLLEGE
NEBRASKA

MOTORCYCLE, ATV & PERSONAL WATERCRAFT TECHNOLOGY

LINCOLN CAMPUS

Diploma

www.southeast.edu/MotorcycleTech



Start an exciting career repairing high-performance recreational, adventure-seeking, multi-terrain rugged machines! You can choose to specialize in one type of vehicle or aspect, such as vehicles 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 (January) and Summer (July) quarters.

A variety of industries use these types of vehicles for their maneuverability and off-roading ability such as:

- water sports and recreational facilities
- law enforcement
- search and rescue
- border patrol
- construction
- emergency medical services
- forestry and land management
- military
- mineral exploration
- surveying
- wild land fire control

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 \$16.35 per hour.

For more information contact:

Barry Smith, Program Chair – Lincoln
402-437-2643, (800) 642-4075 ext. 2643
bsmith@southeast.edu

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

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General Education Requirements:

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

(One class from each area below.)

Oral Communications	4.5
Written Communications	4.5
Critical Thinking & Problem Solving	6.0
PHYS1150 Descriptive Physics	15.0 hours

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	4.5
MSTT1112	Basic Engine Theory	4.5
MSTT1120	Wheels & Tires	3.0
MSTT1125	Electrical Concepts	4.0
MSTT1126	Electrical Circuits	5.5
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	6.0
MSTT1146	Rideability and Electrical Update /or	5.0
MSTT1901	Rideability and Electrical Update with Coop	6.0
WELD1176	Automotive and Motorcycle Welding	2.5
		59.5-60.5 hours

Optional:

MSTT1113	Metric Measure	3.0
MSTT1001	Introduction to Motorcycle Technology	3.0

Students are required to provide or purchase a basic tool set during the first quarter.

Students also are required to wear program shirts while in class or laboratory settings. Shirts are available through the SCC Bookstore.

Estimated Expenses	
Nebraska Resident tuition/fee rate is \$69.50 per credit hour. Out-of-state tuition/fee rate is \$83.50 per credit hour. Graduation fee is \$25.	
Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.	
Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.	
*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 Store.	
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.	
FIRST QUARTER	
Tuition And Fees	\$1,321
Books	350
Tools/Supplies	3,500- 4,500
(a basic tool set is required*)	
Total First Quarter	\$5,171- 6,171
SECOND QUARTER	
Tuition And Fees	\$1,390
Books	100
Total Second Quarter	\$1,490
THIRD QUARTER	
Tuition And Fees	\$1,460
Books	170
Total Third Quarter	\$1,630
FOURTH QUARTER	
Tuition And Fees	\$1,390
Books	100
Total Fourth Quarter	\$1,490
Total Estimate For Program	\$9,781- 10,781



Basic Tools - Required by 4th week

WRENCHES

- 1 Adjustable wrench 10"
- 1 set Combination wrenches (Metric - 6mm-19mm)
- 1 set Combination wrenches (Standard - 3/8"-1")
- 1 set Flare nut wrenches (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 saw
- 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)

