



## Associate of Applied Science Degree

Credit Hours Required for Graduation:  
Associate of Applied  
Science Degree.....66.5 - 67.5



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A0706 - AUTT (06/19)

Skilled auto technicians are in demand! Duties in this field include researching service information using manuals or computer-based programs and using an extensive array of hand tools and diagnostic equipment. You also will learn writing, speaking and math skills. Program graduates are employed in dealerships, independent shops, fleet service facilities, and owner/operator shops.

## Why SCC?

New cars and trucks on the road today are the most technologically advanced consumer item people own. All of these will require professional maintenance and repair throughout their useful service life. SCC's automotive courses are designed to train individuals with modern equipment and high-tech tools that provide the necessary workplace skills to succeed. SCC has more industry partnerships with car makers and tool suppliers than any other college in the state. We have the opportunities in place and the know-how to help you start a rewarding career in the automotive field.

## Program Overview

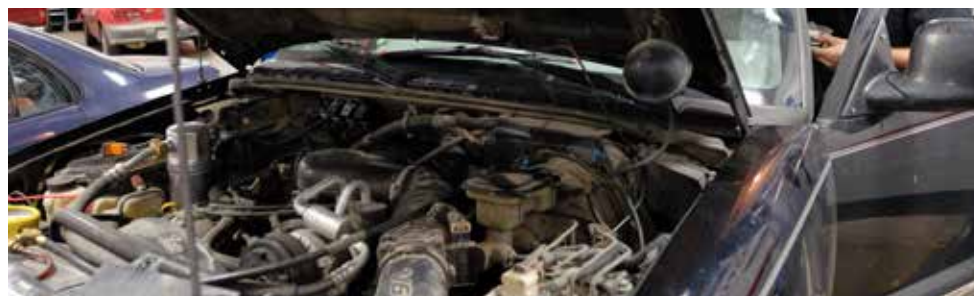
**PROGRAM MISSION STATEMENT:** The mission of the Automotive Technology program is to prepare individuals for employment as high-quality entry-level technicians in the automotive repair field.

## Special Program Requirements:

Course offerings and prerequisite sequencing will be determined by the program's campus location. A minimum grade of C or higher in all AUTT courses is needed to progress through the program.

Students are required to provide or purchase a basic tool set during the first semester. Students also are required to wear program shirts while in class or laboratory settings. Shirts are available for purchase through the SCC Campus Store.

All instructors in this area are ASE certified in the areas they teach.



## Top Career Options

- Automotive Technician
- Oil/Lube Technician
- Service Technician
- Parts Distribution or Parts Sales
- Service Advisor



## Graduate Earnings

Recent graduates report an average starting wage of \$14.30 per hour.

\* 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 on each campus and offer students a discount. The discounts are determined by each vendor. The cost of tools will vary depending on which vendor is selected. As each semester has different requirements for tools, some semesters will exceed the average listed above and some semesters will be below the listed average. The maximum amount for tools should not exceed \$5,900. \*\* Supplies are determined by each term and are typically available through the Campus Store or the parts store. Students are required to wear program uniform shirts while in class or laboratory settings. Shirts are available for purchase through the SCC Campus Store.

2019-2020 Tuition/Fee Rate Per Credit Hour	
Nebraska Resident	\$108
Out-of-state tuition/fee rate	\$129
<b>Estimated Expenses</b>	
Tuition/Fees	\$ 7,290
Books	1,092
Tools/Supplies	5,900
<b>Total:</b>	<b>\$14,282</b>



## 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	3.0
Written Communications	3.0
Critical Thinking & Problem Solving	4.0
PHYS1150 Descriptive Physics	

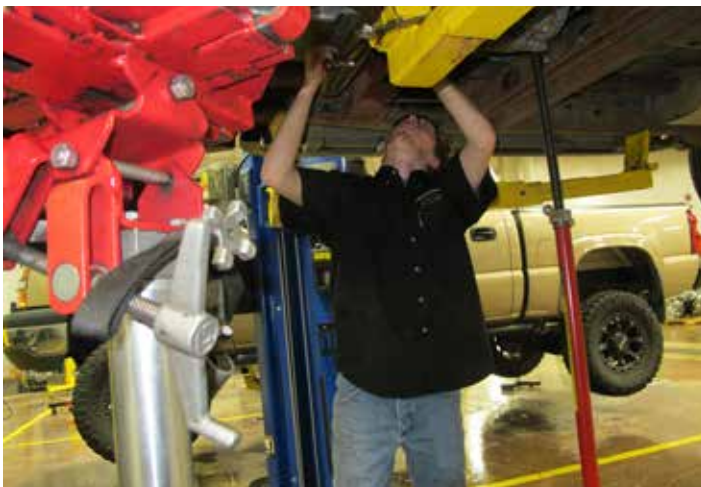
(Plus two classes from the three areas below; no two classes from the same area.)

Global Awareness and Citizenship, Analytical, Quantitative and Scientific Reasoning, and/or Career and Life Skills.

See catalog for eligible classes.	6.0
	16.0 hours

## Automotive Courses:

Course #	Course title	Credit hrs
AUTT1102	Basic Automotive Maintenance & Light Repair	6.0
AUTT1126	Automotive Electrical I	6.0
AUTT1214	Steering, Suspension & Brakes	6.0
AUTT1216	Automotive Electrical II & HVAC	6.0
AUTT2103	Drivetrains	3.5
AUTT2112	Automatic Transmission/Transaxle	6.0
AUTT2135	Advanced Control Systems	4.0
AUTT2201	Engine Repair	6.0
AUTT2208	Engine Performance	6.0
WELD 1190	O/A and GMAW Welding (Milford)	1.0
	or	
WELD1176	Automotive and Motorcycle Welding (Lincoln)	2.0
		50.5 – 51.5 hours



This program is accredited by the ASE Education Foundation, 1503 Edwards Ferry Rd., NE, Ste. 401 Leesburg, VA 20176, 703-669-6650, [www.aseeducation.org](http://www.aseeducation.org)

The Automotive Technology program is nationally recognized and is certified by the ASE Education Foundation, and is led by Automotive Service Excellence-certified instructors. The program provides students the fundamental knowledge and experience needed to become entry-level technicians in the automotive industry.

## AUTOMOTIVE APPROVED TOOL LIST

The following tool list includes the basic tools a student will be required to have to successfully complete the Automotive Technology program. The student should discuss with their advisor the timeline for purchasing specific tools and suggested optional tools.

The College does not recommend, nor endorse, any specific brand of tools. The student should give careful consideration when selecting tools he/she will use in their career.

### Tool Storage

42" Roll-Away (maximum size)

\*Hand carry tool box w/padlock (max 9"W x12"H x 20"L)

### Wrenches

1/4" - 1 1/4" standard combination 12 pt.

6 mm - 19 mm standard combination 12 pt.

Adjustable wrench - 12"

Flare Wrench Set 3/8-11/16 &

9 mm - 18 mm

### 1/4 Drive

3/16" - 9/16" standard 6 pt. and deep 6 pt.

5mm -14mm standard 6 pt. and deep 6 pt.

Extensions (3) 2", 4", 6" or equivalent

Ratchet

Universal joint

Drive handle

### 3/8 Drive

5/16- 13/16 standard 6 pt. and deep 6 pt.

6-19mm standard 6 pt. and deep 6 pt.

Spark plug 5/8 and 13/16

Extensions (4) 1"-12"

Torx T10-T60

Flex head ratchet

3/8" Air ratchet

3/8"- 3/4" flex impact

10 mm -19 mm flex impact

Universal joint

3/8" drive extension - 36"

3/8 Torque wrench 15-100 ft/lb or equivalent

### 1/2 Drive

3/8' - 1 1/4" standard 12 pt.

10 mm - 24 mm standard 12 pt.

7/16" - 1 1/4" deep impact 6 pt.

10 mm - 24 mm

deep impact 6 pt.

Ratchet (15" Long)

Breaker bar 15" - 24" min

Extensions (3) 3", 5", 10" or equivalent

1/2" Air impact

1/2" Torque wrench 40 - 250 ft/lb

\*\*30, 32, 34 & 36 mm deep impact sockets

### Screwdrivers

Standard (5) 1/8", 3/16", 1/4", 5/16", 3/8"

Phillips (3) 1, 2, 3

Pocket screwdriver

1 set Torx Screwdrivers

(TX10-TX30)

### Pliers

Combination 6" slip-joint combination

Diagonal cut 7"

Needle nose 6"

Wire crimper/cutter/stripper

Vise-Grip (3) 5" curved, 10" curved, 6" long nose

Battery pliers

Fixed tip Snap ring convertible pliers 6" & 8" straight tip

(.038", .045" & .070")

Lock ring pliers

Spark plug boot

Adjustable Joint 10" (min.)

## Hammers

Ball peen (2) 16 oz, 32 oz

Dead Blow (24 oz to 26 oz)

## Punches/Chisels/Files/Saw

12" Hacksaw w/blades

Punches & Chisels set (minimum 12 piece - including center punch)

Brass drift 6" minimum

Half round nose cape chisel

Files (3) 10" flat, 8" round, 6" Tri

File card

File handles

## Electrical

Fluke 87 or 88 Multi-meter (NO EXCEPTIONS)

12v Test light

Battery Terminal cleaner

Adjustable Spark Tester

Wire Terminal Tool - (for Computer Control Terminal)

Test lead project kit (Available at SCC Parts Department)

## Brakes

Brake adjusting tool

Hold-down Spring (2) large and small

Brake spring tool

## Measuring Instruments

Feeler gauges (2) Straight and angled .0015-.025 w/metric equivalent

\*Dial indicator w/clamp on base, 1" travel

6" steel ruler w/ std. and metric

Thread pitch gauge std. & metric

0-6" caliper

## Miscellaneous

Safety glasses (min. Z87 rated)

Program Uniforms shirts (3-5 min.)

Available at SCC Campus Store

Ear protection

Calculator

Fender covers (1 set)

Adapters (4) 1/4-3/8, 3/8-1/4, 3/8-1/2, 1/2-3/8

Stethoscope

12' Tape measure

16" Rolling head bar

Pry bar set (12" & 24" min)

Gasket scraper

Pick set (4 piece)

Magnetic pick up tool (telescoping)

Inspection mirror

Wire brush - 10" minimum

Pen/Mini-Mag light w/batteries

Oil filter Pliers (Slip Joint)

Air chuck

Tire gauge

\*\*Antifreeze Tester

Spark plug gapper .040 - .080" -wire type

Valve core tool

Rubber tip air nozzle

A/C Thermometer

Vacuum plug set

\*\* Lip seal installer

Pair welding gloves

Hand held vacuum pump

Basic A/C & Fuel line disconnect tools

Allen wrenches (2sets) .050" -3/8" & 4 mm

-12 mm

\*A/C manifold gauge set R134a

\*Freon Can tap

\*Aluminum block project kit

\*Electrical wire project kit

\*Required on Milford Campus only

\*\* Required on Lincoln Campus only