



Associate of Applied Science Degree

Credit Hours Required for Graduation:
Associate of Applied Science Degree: 70.5



For more information contact:

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Careers in the agricultural equipment service industries offer a variety of challenging and rewarding opportunities. Get the education and hands-on training you need for a career as an ag equipment diesel technician. Graduates can specialize in electrical/electronic systems, precision farming, HVAC, harvesting, planting, hydraulics, power trains and of course, engine/fuel systems. Many people choose to be masters of all agricultural equipment systems to personally handle any customer concern. You'll receive comprehensive training in all ag equipment systems during the program. You'll also have the opportunity to hone your skills in our new Crete Carrier Diesel Technology & Welding Center.

There are tremendous employment opportunities available with dealerships, independent shops, farming operations and many more. This course of study utilizes industry-sponsored equipment, tools and resources that are typical of modern dealership service requirements.



Orr SCC graduate is a great addition to our team. We will continue to invest in him and give him opportunities of increasing responsibility in an effort to grow him personally and professionally. He will receive on-the-job training to enhance and master the skills he received at SCC.

Lucas Scheibe, Manager
Butler Ag Equipment



Top Career Options

- Ag Equipment Technician



Graduate Earnings

Recent graduates report an average starting wage of \$20.45 per hour.



2019-2020 Tuition/Fee Rate Per Credit Hour	
Nebraska Resident	\$108
Out-of-state tuition/fee rate	\$129

Estimated Expenses

Tuition/Fees	\$ 7614
Books	2245
Special Fees	350
Tools/Supplies	6196

Total: \$16,405

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 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

Diesel-Ag Equipment Service Tech Courses

Course offerings and prerequisites will be determined by the program. A grade of "C" or higher in all AGST classes is required to progress through the program.

Course #	Course title	Credit hrs
AGST1110	Shop Process & Safety/Power Trains	4.0
AGST1130	Electrical Systems I	3.5
AGST1140	Electrical Systems II & Fuel Systems I	3.5
AGST1220	Electrical Systems III	3.5
AGST1240	HVAC	3.5
AGST1260	Hydraulic Systems	5.0
AGST1901	Cooperative Experience	5.0
AGST2410	Diesel Engines I	6.0
AGST2420	Engine Overhaul and Inspection	5.5
AGST2430	Spraying Equipment, Precision Guidance & Control Systems	2.0
AGST2510	Power Trains II	4.0
AGST2520	Planting & Seeding Systems	3.5
AGST2530	Harvesting Systems	4.5
WELD1190	OA & GMAW Industrial	1.0
		54.5 hours

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

Students are required to wear program uniforms while in classroom or laboratory settings. Shirts may be purchased in the SCC Campus Store.

Tools vendors make special arrangements to be available on campus and offer students a discount. Students will be notified ahead of time of availability. Tool costs vary by vendor.



Basic Tools for Diesel-Ag Equipment Service Technology Program

Students are required to use safety-toe boots or shoes during all lab activities and while participating in Cooperative Education/Internship.

1st Semester

PPE (Personal Protective Equipment)

- * 1 - Safety Eyewear (Z-87 Approved)
- * 1 - Hearing Protection (Ear muffs of Ear canal plugs)
- ***1 - Pair Safety Toe Boots or Shoes

TOOL BOX

- 1 - Tool Box -lockable (max. size: 30" wide X 18" tall X 12" deep)

ELECTRICAL TOOLS

- * 1 - Fluke Model 87 Digital Multimeter (NO SUBSTITUTES)
- 1 - Electrical Pliers, Wire Crimper/Cutter/Stripper
- 1 - Wire Type Spark Plug Gage -Standard Ignition
- 1 - Wire Type Spark Plug Gage -Electronic Ignition
- * 1 - Electrical Test Lead Kit 802 651 151
- * 1 - Jumper Kit #80265115
- 1 - Penlight

PLIERS

- 1 - Combination Pliers
- 1 - 6" Needle Nose Pliers
- 1 - 7" Diagonal Pliers
- 1 - Water Pump or Channel Lock Pliers (12" minimum)
- 1 - 4" Vise Grip Pliers w/Cutter
- 1 - 6" Vise Grip Longnose Pliers
- 1 - 10" Vise Grip Pliers w/cutter
- 1 - Flat-Nose Snap Ring Pliers - narrow tip
- 1 - Flat-Nose Snap Ring Pliers - wide tip

HAND WRENCHES

- 1 - Allen Wrench Set-English
- 1 - Metric Allen Wrench Set
- 1 - Ignition Wrench Set (7/32" - 3/8" range)
- 1 - Combination Wrenches (3/8" to 1 1/4")

SOCKET WRENCHES

- 1 - 1/4" Drive Socket Set (1/4" to 1/2") -6 Point, including Ratchet, Short Extension & Drive Handle & Universal Joint
- 1 - 3/8" Drive Socket Set (3/8" to 7/8") - 12 POINT, INCLUDING Ratchet, 3" & 5" Extensions, Flex Handle, Speed Handle and Universal Joint
- 1 - 3/8" to 1/4" Adapter
- 1 - 1/4" to 3/8" Adapter
- 1 - 3/8" to 1/2" Adapter
- 1 - 1/2" to 3/8" Adapter
- 1 - 1/2" Drive Socket et (3/8" to 1 1/4" - 12 point, including Ratchet, 3" & 6" Extensions, Flex Handle, Speed Handle and Universal Joint
- 1 - 1/2" Drive Deep Well Sockets, 3/8" to 7/8", 12 point
- 1 - 3/8" Drive Universal Socket Set, Shallow 6-point, (7/16" to 3/4")
- 1 - 3/8" Drive Socket Set, Deep, 6-point, (1/4" to 7/8")
- 1 - 1/4" Drive Metric 6-point Socket Set (5-14mm)

CUTTING TOOLS

- 1 - Hacksaw w/Blades
- 1 - 10" Half Round File w/Handle
- 1 - 10" Single Cut Mill Bastard File w/Handle
- 1 - 8" x 5/16" Round File w/Handle
- 1 - File Card
- 1 - Gasket Scraper

HAMMERS

- 1 - Short Handle Machine Hammer - 4 or 5 lb.
- 1 - 1 lb. Ball Peen Hammer
- 1 - Compothane "Dead Blow" Hammer, 2 or 3 lb.

PRYING TOOLS

- 1 - 'O' Ring Tool
- 1 - Rolling Head Bar (6" to 20")

MEASURING

- 1 - 0 to 1" Micrometer (Non-Digital)
- 1 - .0015" - .030" Feeler Gauge Set
- 1 - Dial Indicator w/Magnetic Base (1" Travel Indicator)
- 1 - English Thread Pitch Gage
- 1 - Metric Thread Pitch Gage
- 1 - 40-200 in. lbs. 1/4" Drive Torque Wrench
- 1 - 6" Steel Rule
- 1 - Scribe
- ** 1 - Screw Sizer

SCREWDRIVERS

- 1 - 1 1/2" Flat Tip Screwdriver
- 1 - 2 7/8" Flat Tip Screwdriver
- 1 - 4" Flat Tip Screwdriver
- 1 - 6" Flat Tip Screwdriver
- 1 - 8" Flat Tip Screwdriver
- 1 - No. 1 Phillips Screwdriver
- 1 - No. 2 Phillips Screwdriver
- 1 - No. 3 Phillips Screwdriver
- 1 - No. 4 Phillips Screwdriver
- 1 - Screwdriver, Flat Tip, Pocket, .025" tip, 4 3/4" Long (Snap-On®SDD2240 or equivalent)
- 1 - Screw Extractor Set

PUNCHES / CHISELS

- 1 - Brass Drift Punch Set 3/8" to 1/2"
- 1 - Center Punch
- 1 - 1/8" Pin Punch
- 1 - 5/32" Pin Punch
- 1 - 3/16" Pin Punch
- 1 - 1/4" Pin Punch
- 1 - 1/8" Starting Punch
- 1 - 1/4" Starting Punch
- 1 - 3/8" Cold Chisel
- 1 - 1/2" Cold Chisel
- 1 - Bearing Race Punch (MAC PB39L or equivalent)
- 1 - Cotter Pin/Seal Puller (Snap-On® #S59094B or equivalent)

Supplies: *Calculator (4-function), Padlock for tool box, Arc Welding Gloves, and Electrical Test Kit (#80265115) in the Campus Store.

2nd Semester

TOOL BOX

- 1 - Roll-A-Way Tool Box (Top Chest Optional) (Maximum 55" long - 55" includes hang/add on boxes)

PPE

Students are required to use safety-toe boots or shoes while participating in lab and during cooperative Education/Internship.

PLIERS

- 1 - Set of 4 Internal/External Snap Ring Pliers. Tip Diameters: .038, .047, .070, .090

HAND WRENCHES

- 1 - 6 Point Flare Nut Wrench 1/4" - 5/16"
- 1 - 6 Point Flare Nut Wrench 3/8" - 7/16"
- 1 - 6 Point Flare Nut Wrench 1/2" - 9/16"
- 1 - 6 Point Flare Nut Wrench 5/8" - 3/4"
- 1 - Metric Combination Wrench Set (8mm to 32mm)

SOCKET WRENCHES

- 1 - 3/8" Drive Torque Wrench (5ft.lbs. to 75 ft.lbs.)
- 1 - 1/2" Torque Wrench (150 ft. lb. minimum)
- 1 - 3/8" Drive 3/4" Flare Nut Socket - Snap-On®only FRXM241
- 1 - 3/8" Drive 17mm Flare Nut Socket - Snap-On®only FRXM17
- 1 - 3/8" Drive Metric Socket Set (8mm to 19mm)
- 1 - 1/2" Drive Metric Socket Set (10mm to 27mm + 30mm & 32mm)
- 1 - 1/4" & 3/8" Drive Torx Drivers (T-8 to T-55) (Snap-On®212EFTXY or equivalent)
- 1 - 1/2" Drive 19mm Deep Socket-12 point
- 1 - Allen Head Socket Set (English) (3/8" Drive)
- 1 - Allen Head Socket Set (Metric) (3/8" Drive)
- 1 - 1/4" & 3/8" Drive Torx Socket Set (E4 to E18) (Snap-On®210AFLEY or equivalent)
- 1 - 1/4" & 3/8" Drive Torx Bit Set (T8 to T55) (Snap-On®212EFTXY or equivalent)

MEASURING

- 1 - Tire Pressure Gauge (100psi capacity)

PUNCHES / CHISELS / PRYBARS

- 1 - 16" Pinch Bar
- 1 - 18" Pry Bar
- 1 - Roll Pin Punch Set - 12 piece set (Snap-On® PPR712K or equivalent)

HVAC

- 1 - Air Conditioning Service Wrench (1/4" to 3/16" square drive on one end w/1/2" to 9/16" Hex Wrench on opposite end)
- 1 - Air Conditioning Thermometer (0o to 220o)
- 1 - R 134A Can Tap Valve (Snap-On® ACT413 or equivalent)

General Purpose

- 1 - Fender/Engine Cover
- 1 - Utility Light w/10ft. Cord (Troublelight)
- 1 - 'O' Ring Pick Set (Snap-On®A5A204A or equivalent)

DRILLS

- 1 - Twist Drill Index 1/16" to 1/2" by 64ths
- 1 - 3/8" Variable Speed/Reversible Drill (Electric or Air)

TOOL REQUIREMENTS FOR 3rd & 4th SEMESTERS ARE THE SAME AS THOSE REQUIRED FOR 1st & 2nd SEMESTERS.

THE FOLLOWING TOOLS ARE OPTIONAL:

- 1 - 3/8" Air Ratchet
- 1 - 3/8" Air Impact Wrench
- 1 - 3/8" Impact Socket Set (3/8" to 7/8")
- 1 - 1/2" Air Impact Wrench
- 1 - 1/2" Impact Deep Socket Set (1/2" to 1 1/2")
- 1 - 1/2" Impact Socket Set (3/8" to 1 1/4")
- 1 - Angle Head Open End Wrench Set (3/8" to 1 1/4")
- 1 - Metric Head Open End Wrench Set (10mm to 19mm)
- 1 - 3/8" Drive Crowfoot Open End Wrench Set (3/8" to 2")
- 1 - 3/8" Drive Metric Deep Socket Set (6mm to 19mm)
- 1 - 1/2" Drive Metric Deep Socket Set (10mm to 20mm)
- 1 - Air Hammer Set, Medium Duty (Snap-On®PHG2045CH4 or equivalent)
- 1 - Bushing Driver Set (Snap-On®#A157C or equivalent)
- 1 - Slide Hammer (Snap-On®#CJ250 or equivalent)
- 1 - Air-Conditioning R-134A Gauge/Manifold/Hose set
- 1 - Creeper
- 1 - 3/8" Drive Impact Swivel Socket Set (3/8" to 9/16")

* May be purchased at the SCC Milford Campus Store. ** May be purchased at the Milford Campus Parts Store. *** Must be purchased off campus.

SCC is the Nebraska AGCO Advantage College with "Dealer Technician Development." SCC also is a Case New Holland Agricultural & Industrial partnership program. We still continue serving all brands of ag equipment industries in our 15-county service area.