



JOHN DEERE

TECH PROGRAM



GARDEN CITY
COMMUNITY COLLEGE

**STUDENT
INFORMATION
HANDBOOK**

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Dear Prospective Student

Welcome from the Broncbuster Nation!

We have received information that you are interested in the John Deere program at Garden City Community College. The Associate in Applied Science Degree in Agricultural Equipment Technology is a partnership with GCCC, John Deere, and a John Deere dealer organization. The purpose of this partnership is to create advanced, entry level technicians that can efficiently service and repair a variety of John Deere equipment. At the conclusion of this program a graduate will have earned an AAS degree and be certified by John Deere in the areas of electricity, hydraulics, and service information.

As a program, we are unique in our enrollment that we require each student to be under a contract with a John Deere dealer of their choosing. Our current partnerships are with American Implement, BTI, Western Equipment, Keating Tractor, Green Country, South Plains Implement, 4Rivers Equipment, 21st Century, and many other dealerships. If you are interested in a joining our program, contact your local dealership and they will start you down that path of a long and successful career!

If you have any questions, feel free to contact admissions at GCCC or the John Deere department.

Looking forward to working with you!

Gabe Winger
JDAT Director
801 Campus Dr.
Garden City, KS 67846
Office: 620-276-9512
Email: christian.winger@gcccks.edu



About the College

Mission

Garden City Community College exists to produce positive contributors to the economic and social well-being of society.

Vision

GCCC will be the premier educational nexus to progress, providing world class learning in a dynamic environment. From here, you can go anywhere.

Values

B-old innovation

U-nwavering Integrity

S-ervice and Collegiality

T-rust, Transparency, & Accountability

E-mpowered Creativity & Academic Freedom

R-esponsible Leadership

S-tudent-centered focus



About the Program

Agricultural Equipment Technology - John Deere

Are you ready to power up your career? John Deere TECH is not a typical diesel program. It combines the classroom time for learning the basic theories behind John Deere systems with lab time for working with real John Deere equipment. You will apply all that you have learned in the program to the real world as a paid intern for a John Deere dealer.

In an intense and focused environment, you will learn about John Deere diesel engines, powertrains, hydraulics, and machine set-up systems. You will also learn about high-tech electronics, computer diagnostics, and proprietary John Deere software. Communication and customer relations skills are also essential parts of the education you will receive in the JDAT program at GCCC.

The John Deere Tech Program at Garden City Community College was started in 1991 through a collaborative effort between John Deere Company and GCCC. The purpose of the program is to create skilled technicians for employment in the agriculture equipment industry. The program has been established as a four-way partnership between GCCC, John Deere, individual John Deere dealerships and the students. Today, the program accepts up to 20 students each academic year.

John Deere has pledged to keep our program current with training components, equipment, and educational opportunities for our instructors. The dealers have also pledged to provide paid internship experiences and uniforms for our students. The college provides the facilities, instructors, and classes to round out this Associate Degree program.

John Deere's vision of their partnership programs says it best:

"John Deere college partnership programs are the pre-eminent college and industry training programs to provide highly trained graduates to meet the needs of John Deere dealers."



Company/College/Dealership/Student Relationship

The Company's responsibility:

- Software
- Equipment
- Oversee and participate in student selection procedure
- Oversee and participate in instructor selection procedure by reviewing applications
- Monitor all phases of the program to assure success
- Graduation plaques
- Meals (Graduation, Open-Houses, Dealer Advisory Meetings)
- Provide training for instructors
- Encourage dealer cooperation and support
- Recruit and promote the program on a National level

Dealership responsibility:

- Interview and select students for sponsorship
- Provide uniform for student
- Pay student during any work study or related experience at the dealership
- Provide the student with a John Deere Userid and maintain it for the length of the program
- Provide the connection to purchase tools, either through John Deere or third party

Student responsibility:

- Be a high school graduate or equivalent
- Meet specified admission and academic requirements
- Obtain sponsorship with John Deere Dealership
- Maintain attendance standards according to College policy
- Wear uniform and safety glasses (as needed)
- Be responsible for program cost, tuition, fees, books and tools

College responsibility:

- Maintain a current curriculum approved by John Deere
- Provide a dedicated classroom and lab
- Provide trained instructors
- Promote, advertise, and recruit qualified students
- Maintain all student records
- Provide student services such as academic advisement, financial aid, counseling, etc
- Conduct student visitations during occupational experience semesters



Contact Persons – Program Related

Gabe Winger

JDAT Director

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Garden City, KS 67846

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Nate Steinle

JDAT Instructor

801 Campus Dr.

Garden City, KS 67846

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Chuck Pfeifer

Dean of Technical Education and Workforce Development

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Garden City, KS 67846

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Anthony Styczinski

Manager, College Partnerships

Olathe, KS

Email: styczinskianthonyj@johndeere.com

Contact Persons – Campus Related

Annette Waetzig

Residential Life

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Rafaela Arana

Assessment Clerk

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Student Accounts – Business Office

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Melinda Harrington

Financial Aid Director

801 Campus

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Nancy Unruh

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Virga West

Broncbuster Bookstore Manager

801 Campus

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Student Fees

Tuition, Fees & Payment

The total amount of tuition and general fees is determined each semester by the student's residency status, and the number of hours in which the student enrolls. Anyone auditing courses will be charged all tuition and fee rates.

Kansas In-State Residency Status

Tuition: \$62.00 per credit hour
Student Fees: \$53.00 per credit hour

Out-Of-State Residency Status

Tuition: \$80.00 per credit hour
Student Fees: \$47.00 per credit hour

Border State Tuition

(CO, MO, NE, NM, OK, TX)

Tuition: \$76.00 per credit hour
Student Fees: \$53.00 per credit hour

International Status

Tuition: \$99.00 per credit hour
Student Fees: \$53.00 per credit hour

Online

Tuition: \$150.00 per credit hour

Total Estimated Cost

<i>68 Hours X \$115 -</i>	<i>\$7,820</i>
<i>Course Fees -</i>	<i>\$2,999</i>
<i>Total -</i>	<i>\$10,819 + Cost of Living</i>

Tuition and Fee Payments

All tuition and fees must be paid in full or students must be signed up and current on a payment plan before any future enrollments can be processed. One week before classes begin the student can view their student account on-line by logging into their Buster Web, under "Review Student Account/Make Payment/ Set up Payment Plan. From there, a student can make a payment, set up a payment plan or authorize others to view their student account, make payments or sign up on a payment plan on the student's behalf. Students whose financial aid applications are complete and accurate in the Financial Aid Office by July 1 or December 1 will have their aid eligibility determined by August 1 or January 1.

Visit https://www.gcccks.edu/tuition_cost/tuition_fees_payment.aspx for more information!

Residential Life

Residential Life

Located next to the Beth Tedrow Student Center, residents have easy access to the pool tables, ping pong, air hockey, and other on-campus activities. The National Guard is also located in the BTSC. The Broncbuster Bookstore is located next to the cafeteria across from the Residential Life office. Most of your classes and the library are just across the street!

Living at GCCC

The Residential Life office at Garden City Community College would like to help you find your home away from home.

Living on campus gives you the opportunity to become more involved in campus activities and you'll meet more people that share your interests. It also allows you to have one bill for all of your living expenses.

Living on Campus has many advantages:

Resident Assistant (RA) Staff available

In-room wireless internet access

Heating and air conditioning in all rooms

Television lounges

Meal plan for every appetite in our full-service cafeteria

FREE laundry facilities

Monthly activities sponsored by Residential Life

Annual Cost of Housing (includes 19 meals per week)

East Units and West Hall – \$6,000

Broncbuster Housing – \$6,800

Apartments – \$7,300

Broncbuster Suites – \$7,500

Visit https://www.gcccks.edu/student_life/reslife_reserve.aspx for more information!

Program Schedule

Program Description: The Associate in Applied Science Degree in Agricultural Equipment Technology is a partnership with GCCC, John Deere, and a John Deere dealer organization. The purpose of this partnership is to create advanced, entry level technicians that can efficiently service and repair a variety of John Deere equipment. At the conclusion of this program a graduate will have earned an AAS degree and be certified by John Deere in the areas of electricity, hydraulics, and service information.

Below is a schedule of the program throughout the 20 month process:

	FIRST Semester	Total Semester Hours:	16
	Course No.	Course Title	Credit
1	JDAT-102	Agricultural Powertrains I (8-weeks)	3
2	JDAT-103	Agricultural Hydraulics I (8-weeks)	3
3	JDAT-104	Agricultural Electrical I	3
4	INPR-1511	Safety & Orientation	1
5	JDAT-112	Information Management Systems	2
6	ENGL-100	Applied Communications	3
7	PCDE-109-07	Career Success Requirement	1

	SECOND Semester	Total Semester Hours:	19
	Course No.	Course Title	Credit
1	JDAT-122	Agricultural Powertrains II	3
2	JDAT-123	Agricultural Hydraulics II	3
3	JDAT-124	Agricultural Electrical II	3
4	JDAT-109	Harvesting Equipment	4
5	CSCI-110	Intro Computer Concepts	3
7	BSAD-124	Salesmanship	3

	Summer Semester	Total Semester Hours:	3
	Course No.	Course Title	Credit
1			
2	JDAT-107	Dealer Internship 1	3



	THIRD Semester	Total Semester Hours:	18
1	Course No.	Course Title	Credit
2	JDAT-105	Air Quality Systems	3
3	JDAT-202	Agricultural Engines	4
4	JDAT-202	Agricultural Fuel Systems & Performance	3
5	SOCI-101	General Sociology	3
6	MATH-107T	Technical Math	3
7	HPER109	First Aid	2

	FOURTH Semester	Total Semester Hours:	12
	Course No.	Course Title	Credit
1	JDAT-108	Dealer Internship II (8-weeks)	3
2	JDAT-212	Special Topics in Agricultural (8-weeks)	3
3	JDAT-213	Agricultural Hydraulics III (8-weeks)	3
4	JDAT-214	Agricultural Electrical III (8-weeks)	3

Course Schedule Subject to Change*

Total credit hours that must be completed for the JDAT AAS:

68 Hours.

Course Descriptions

Agricultural Powertrains I & II

JDAT-102, 122 3 hours each

This series of three courses encompasses the transmission of mechanical power from the engine or other power source to the load. The course of study will follow from simple to complex and will generally consist of collar shift, synchronized, powershift, electronic controlled shift, and infinitely variable transmissions (IVT). Course will be placed on theory of operation, diagnosis of failures and repair procedures. JDAT-212 introduces the theory of operation of Engines Systems as found in Deere equipment.

Agricultural Hydraulics I, II & III

JDAT-103, 123, 213 3 hours each

Basic hydraulic principles – flow, pressure, and restriction (load) will be covered. These principles will then be applied to John Deere hydraulic systems. Basic hydraulic components – radial piston pumps, axial piston pumps, external and internal gear pumps, selective control valves and pilot-controlled valves will be introduced. Basic hydraulic diagnostics will be infused with the theory of the components listed. The electronic interface will be introduced in Electrical Systems and theory further developed in the Hydraulics systems series.

Agricultural Electrical Systems I, II & III

JDAT-104, 124, 214 3 hours each

The basic characteristics of electricity, voltage, current flow and resistance, the nature of these characteristics in typical DC electrical circuits, and the theory of operation of alternators, starters, and ignition systems will be included. The control and application of accessory circuits such as lighting and HVAC will follow. The use of ISO schematics in the diagnosis of John Deere mobile electrical systems will be emphasized. The ISO diagrams, diagnostic and repair procedures, and the CCD, CanBus, and controller systems will be studied, tested and programmed if allowed. Course will be placed on how the electronic systems interface with the operator, hydraulic, power train and fuel systems.

Harvesting Systems

JDAT-109 4 hours

Theory of combine operation and thrashing concepts, operation of forage harvesters, and hay equipment will be studied and when possible, demonstrated. Adjustment and repair procedures will be outlined, studied, and practiced. The applications of the hydraulics and powertrain systems will be covered. Field demonstrations will be utilized when possible.

Information Management Systems

JDAT-112 2 hours

The information management systems in use in the dealership service departments, including the technical manuals, owner's manuals, Service Information Bulletins, Dealer Technical Assistance Center (DTAC), Service Advisor, and the Electronic Parts Information System are introduced. The students will use each of the systems to familiarize themselves with each system and then be able to use them in the course of the Ag Tech program and at the dealership. When appropriate this course includes an introduction to the financial reports that are pertinent to the service department at the dealership.

Special Topics in Ag Tech

JDAT-120 3 Hours

This course is in place to allow flexibility in meeting training needs that are of an infrequent nature, allow the program to respond quickly to changes in the product delivered by John Deere to customers and meet John Deere certification requirements.

John Deere Air Quality Systems

JDAT-105 3 hours

The basics of the refrigeration cycle will be introduced. Repair and diagnostic procedures will be performed on the equipment available. Cooling, heating, and filtering systems will be studied and repair procedures practiced. The electronic interface with the vehicle communications system will be introduced.

Dealer Internship I

JDAT-107 3 hours

These internships offer a supervised work experience needed to make courses taught on campus meaningful and useful. Students will practice the skills and use the knowledge acquired in class and in the lab.

Dealer Internship I

JDAT-108 3 hours

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John Deere Engine Systems JDAT-202 3 hours

Disassembly and repair of JD diesel engines will be covered. Cylinder head, valve train, piston and crankshaft, and lubrication systems will be studied on the basis of wear, repair, and failure prevention. A review of the basic diesel cycle will be included with Course on its use in the diagnostic procedures.

Agricultural Fuel Systems and Performance

JDAT-203 3 hours

Gas and diesel fuel systems will be studied and theory of operation of diesel injection pumps will be covered. Testing and repair of injectors will be covered. Electronic governors and electronic fuel injection will be introduced. EPA regulations and emissions rules will be introduced. Diagnosis using the Service Advisor system will be practiced.



Typical Freshman Schedule First Semester Example

Freshmen Schedule - JDAT						
FALL 2019 (First 8 Weeks) - Section 1						
		Monday	Tuesday	Wednesday	Thursday	Friday
7	:00					
	:15					
	:30					
	:45					
8	:00					INPR-1511-01 Safety Orientation Annex 1001 Gabe
	:15					
	:30	JDAT 103-01 Hydraulics I Annex 1005 Nate	JDAT 102-01 Power Trains I Annex 1005 Nate	JDAT 103-01 Hydraulics I Annex 1005 Nate	JDAT 102-01 Power Trains I Annex 1005 Nate	
	:45					
9	:00					
	:15					
	:30					
	:45					
10	:00					
	:15					
	:30					
	:45					
11	:00					
	:15					
	:30					
	:45					
12	:00					
	:15					
	:30		Eng 100-01 Technical English Annex 1006		Eng 100-01 Technical English Annex 1006	
	:45					
1	:00	JDAT 1043 - 01 Electrical 1 Annex 1005 Nate		JDAT 112-02 Information Management Annex 1001 Gabe		
	:15					
	:30					
	:45					
2	:00					
	:15					
	:30				PCDE 109 - 41 Career Success Annex 1001 Gabe	
	:45					
3	:00					
	:15					
	:30					
	:45					

Recommended Tool List – By Graduation

Fluke Model 115 will be provided by GCCC during first semester

Safety Glasses (must meet Z87 specs)
Roll-a-Way Cabinet
0 to 1" Micrometer
Combination pliers
6" Needle Nose Pliers
7" Diagonal Pliers
Water Pump or Channel Lock Pliers
Internal/External Snap Ring Pliers Kit-reversible noninterchangeable tips
4" Vise Grip Pliers with cutter
6" Vise Grip Needle Nose Pliers
10" Vise Grip Pliers with cutter
Allen Wrench set, SAE
'O' Ring Pick Tool Set
Penlight
6" Steel Rule
Ignition Wrench Set (7/32"-3/8" range)
Hacksaw with blades
16" Rolling Head Bar
1 lb. Ball Peen Hammer
"Dead Blow" Hammer, 2 or 3 lb.
.0015"-.030" Feeler Gauge Set
Gasket Scraper (minimum 1" wide, short length) 10" Half Round File with handle
10" Single Cut Mill File with handle
8" x 5/16" Round File with handle
File Card
1-1/2" Flat Tip Screwdriver
2-7/8" Flat Tip Screwdriver
4" Flat Tip Screwdriver
6" Flat Tip Screwdriver
8" Flat Tip Screwdriver
No. 1 Phillips Screwdriver
No. 2 Phillips Screwdriver
No. 3 Phillips Screwdriver
No. 4 Phillips Screwdriver
Dial Indicator with magnetic base (1" Travel Indicator)
Telescoping Magnet
Air Conditioning Duct Thermometer
Brass Drift, 3/4" diameter
Center Punch
Pin Punch and Chisel Set
Air Chuck (for inflating tires)
Dial or Digital Tire Pressure Gauge with max. 50 PSI
Electrical Pliers, Wire Crimper, Cutter, Stripper
Welding Gloves
Oxyacetylene Welding Headgear with face shield #5
Lens, also clear face shield for general shop eye protection while grinding, buffing, etc.
Arc Welding Helmet with #10 Lens & 2 clear plastic lenses
Combination Wrenches (3/8" to 1-5/16")
Metric Combination Wrench Set (8 mm to 32 mm)
1/4" Drive Socket Set (1/4"-1/2") including ratchet, short extension, driver handle, universal joint and six point sockets

3/8" Drive Socket Set (3/8" to 7/8") including ratchet, long handle, 4" and 6" extensions, long flex handle, speed handle, and universal joint (12 point sockets)/
1/2" Drive Socket Set (3/8" to 15/16") including Long Handle Ratchet, 3" and 6" Extensions Approximately 24" flex handle & Universal Joint (12 point sockets)
1/4" Drive Metric Socket Set 6 point (4mm to 15mm)
3/8" Drive Metric Socket Set 12 point (8mm to 19mm)
1/2" Drive Metric Socket Set 12 point (10mm to 32mm)
3/8" to 1/4" adaptor
1/4" to 3/8" adaptor
3/8" to 1/2" adaptor
1/2" to 3/8" adaptor
1/2" Drive Torque Wrench (250 ft. lb.)
Twist Drill Bits 1/16" to 1/2" by 32nds
3/8" Drive Torque Wrench (100 ft. lb.)
1/2" Drive Torque Wrench (250 ft. lb.)
Flat Nose Snap Ring Pliers (14" long/1-1/2" opening/wide jaw)
Flat Nose Snap Ring Pliers (14" long/1-1/2" opening/narrow jaw)
Pistol Grip Air Gun with rubber tip
Air Conditioning Service Wrench (1/4" to 3/16" square drive on one end with 1/2" to 9/16" Hex on opposite end)
Ear Protection
Thread Pitch Gage (SAE)
Thread Pitch Gage (Metric)
6 Point Flare Nut Wrench (1/4" to 3/4")
1/2" Drive 3/4" Flare Nut Socket (6 point)
1/2" Drive 5/8" Flare Nut Socket (6 point)
Metric Allen Wrench Set
20" Rolling Head Bar
16" Pinch Bar
30" Pry Bar
Tire Pressure Gauge (100 PSI capacity)
Machine Hammer (3 or 4 lb.)
3/8" Drive Impact Flex Socket Set (7/16" to 3/4", 6 point)
Metric Combination Wrenches (25mm to 32mm)
3/8" Air Ratchet
3/8" Air Impact Wrench
3/8" Drive Impact Deep Socket Set (3/8" to 7/8")
1/2" Air Impact Wrench
1/2" Drive Impact Deep Socket Set (1/2" to 1-1/2")
1/2" Drive Metric Impact Socket Set (19mm to 32mm)
25' Air Hose
Metric Angle Head Open End Wrench Set (10mm to 19mm)
SAE Angle Head Open End Wrench Set (3/8" to 1-1/4")



Dealer/College/Student Contract

JOHN DEERE DEALER/STUDENT INTERVIEW AND AGREEMENT

This is an agreement between the sponsoring John Deere dealer and the student, both of which must sign below to validate this document.

The John Deere dealer agrees to provide the student with uniforms. The dealer agrees to provide Service Advisor for the student's use in the program. The dealer also agrees to appoint a coordinator, usually the service manager, to serve as liaison between the dealership and Garden City Community College. The dealer will also provide the student with employment during those periods when the student is not attending GCCC but is still part of the John Deere TECH program. Whenever possible, the work assignments will reflect the most recent classroom experience. The wages during the employment periods will be agreed to by both parties, but will not be less than minimum wage.

The student agrees to adhere to college policies as set forth in the student handbook. The student agrees to maintain a C average. The student agrees to wear the uniforms provided by the dealer while attending John Deere TECH classes. The student also agrees to provide the dealer with responsible and productive work while at his dealership. The student agrees to work in a safe and prudent manner at all times during his student tenure. The student agrees to allow Garden City Community College to disclose his or her educational records and other information concerning the John Deere TECH program with John Deere Company and the Dealer organization. The student also agrees to allow Garden City Community College's staff to disclose any and all information pertaining to the student's financial status, including but not limited to, federal aid, student loans, scholarships, and any balances or credits on their student account.

This agreement may be terminated because of a student's failing performance at the dealer's discretion. This agreement may also be terminated because of the student's failure to meet John Deere's entrance requirements.

Dealer's Signature

Student's Signature

Dealership Name

Print Student's Name

Dealership Town

Mail To:
Gabe Winger GCCC
801 Campus Drive
Garden City, KS 67846

Date



Steps for Applying for Admission

1. Talk to your local dealership about a sponsorship for the John Deere program.
2. Either yourself or your sponsoring dealer needs to submit a copy of the signed agreement to Gabe Winger in the JDAT program in order to reserve your spot.
3. You can apply at any time during the year.
4. You'll need to complete an Application for Admission, which can be done by simply going to www.gcccks.edu and clicking on the apply now banner at the top right corner.
5. You must complete the TB questionnaire before being allowed to enroll in any course!
6. Send your transcripts.
7. Apply for financial aid and scholarships.
8. Take the ACT or Academic Skills Assessment.
9. If you are interested in living on campus, complete a Housing Application.
10. Visit with a John Deere instructor and register for classes. Together you'll review your test results and your advisor will help you select courses.
11. Pay tuition and fees in full. You won't be able to register for any future course for non-payment of tuition by the due date, so read this information about the tuition & fees closely. (Once you've enrolled for classes at GCCC, you can save time by paying on-line.)
12. Get your picture ID and buy your textbooks.
13. Login to the GCCC Portal. This is where you'll access student tools like Canvas, BusterMail, IT Help Desk and the GCCC Self-Serve (grades, register for classes, financial aid, etc.). You can also find campus announcements, news and events in the portal.