



DIESEL TECHNOLOGY 8272
A Two-Year Program Leading to the A.A.S. or A.S. Degree

The curriculum is designed for those planning to complete a degree leading to employment within the Diesel Industry. Students must select one of three degree concentrations (Diesel Truck and Heavy Equipment Mechanics Technology; John Deere Ag-Tech; or John Deere C & CE-Tech).

Credit Hours - A.A.S./A.S.

Major Program Requirements

42-55

AUTO 110	Transportation Electrical.....	3
AUTO 110L	Transportation Electrical Laboratory.....	1
AUTO 230	Transportation HVAC.....	3
AUTO 230L	Transportation HVAC Laboratory.....	1
DESL 130	Diesel Engine Systems.....	4
DESL 130L	Diesel Engine Systems Laboratory.....	3
DESL 140	Diesel Hydraulic Systems.....	2
DESL 140L	Diesel Hydraulic Systems Laboratory.....	2
DESL 215	Diesel Drive Trains.....	3
DESL 215L	Diesel Drive Trains Laboratory.....	2
DESL 240	Diesel Electronic Systems.....	3
DESL 240L	Diesel Electronic Systems Laboratory.....	2
Courses in Concentration Areas.....		13-26

General Education Requirements

See pages 64 to 74 in this catalog for a complete description of the General education and assessment requirements.

Basic Skills Core

9

ENGL 101	English Composition I.....	3
SPCH 143	Speech.....	3
Math requirement (See Concentrations).....		3

*The Reading, Writing and Speaking requirements may be met by designated courses in areas of concentration.
The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

Liberal Education Core

15-22

PFWL 100	Lifetime Fitness/Wellness -or-	
PFWL 115	Concepts in Wellness -and-	
HLTH 211	First Aid.....	2-3
Social Science Elective.....		3
Additional Liberal Education Courses (See Concentrations).....		10-16

(Continued on the following page)

Diesel, Truck and Heavy Equipment Concentration 8273			A.A.S. A.S.		John Deere Ag-Tech Concentration 8274 A.A.S.		26
			17	13	AGBS 250	John Deere Tech Computer Technology.....	2
AUTO 105	Transportation Fundamental ..	2	2	CHMT 100	Fuels, Lubricants, and Coolants	4*	
CHMT 100	Fuels, Lubricants, and Coolants	4*	-	DEER 150	John Deere Tech Commercial and Consumer Products	2	
DESL 120	Diesel Chassis Systems.....	4	4	DEER 150L	John Deere Tech Commercial and Consumer Products Laboratory.....	1	
DESL 120L	Diesel Chassis Systems Laboratory.....	3	3	DEER 161	Agricultural Machinery	1	
DESL 260	Diesel Preventative Maintenance.....	3	3	DEER 161L	Agricultural Machinery Laboratory	2	
DESL 260L	Diesel Preventative Maintenance Laboratory ^{R/W/S}	1	1	DEER 163	Tractor System Fundamentals.....	2	
DRAF 120	Computers for Technology	2	-	DEER 163L	Tractor System Fundamentals Lab..	1	
ENGL 108	Technical Writing	-	3*	DEER 190	Cooperative Work Experience	3	
HIST 125	History of American Technology	-	3*	DEER 237	Advanced Hydraulics	3	
MATH 101	Intermediate Algebra (or higher).....	-	3*	DEER 237L	Advanced Hydraulics Laboratory....	3	
PHYT 101	Technical Physics.....	-	4*	DEER 270	Advanced Diagnostics ^{R/W/S}	3	
Hum/Math/Soc Sci or Writing Elec	.....	3*	-	DEER 270L	Advanced Diagnostics Laboratory..	1	
Hum/Sci/Math Elective.....	.....	3*	3*	Hum/Math/Sci/Writing Elective.....	.....	3*	
Humanities Elective .....	.....	-	3*	Hum/Math/Soc Sci/Writing Elective.....	.....	3*	
100-level or Higher Mathematics Course	...3*	-	-	100-level or Higher Mathematics Course.....	.....	3*	
Welding Elective.....	.....	2	-	Welding Elective .....	.....	2	
*Required credits specific to this concentration for the General Education and/or Liberal Education Core are counted in the General Education and/or Liberal Education Core areas.					*Required credits specific to this concentration for the General Education and/or Liberal Education Core are counted in the General Education and/or Liberal Education Core areas.		
					John Deere C & CE (Consumer & Commercial Equipment) Concentration 8275 A.A.S.		
					23		
					AGBS 250	Ag Tech Computer Technology	2
					CHMT 100	Fuels, Lubricants, and Coolants	4*
					DEER 150	John Deere Tech Commercial and Consumer Products	2
					DEER 150L	John Deere Tech Commercial and Consumer Products Laboratory.....	1
					DEER 163	Tractor Systems Fundamentals	2
					DEER 163L	Tractor Systems Fundamentals Lab	1
					DEER 190	Cooperative Work Experience	3
					DEER 237	Advanced Hydraulics	3
					DEER 237L	Advanced Hydraulics Laboratory....	3
					DEER 270	Advanced Diagnostics ^{R/W/S}	3
					DEER 270L	Advanced Diagnostics Laboratory ..	1
					Hum/Math/Sci/Writing Elective.....	.....	6*
					100-level or Higher Mathematics Course.....	.....	3*
					Welding Elective .....	.....	2
					*Required credits specific to this concentration for the General Education and/or Liberal Education Core are counted in the General Education and/or Liberal Education Core areas.		

(Continued on the following page)

Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)

DIESEL, TRUCK AND HEAVY EQUIPMENT CONCENTRATION 8273 A.A.S. Degree	DIESEL, TRUCK+HEAVY EQUIPMENT CONCENTRATION 8273 A.S. Degree	JOHN DEERE AG-TECH CONCENTRATION A.A.S. Degree 8274	JOHN DEERE C & CE CONCENTRATION 8275 (Consumer+Commercial Equipment) A.A.S. Degree
Semester I	Semester I	Semester I	Semester I
AUTO 105.....2 AUTO 110.....3 AUTO 110L.....1 DESL 120.....4 DESL 120L.....3 ENGL 101.....3 Welding Elec.....2 Total Hours: 18	AUTO 105.....2 AUTO 110.....3 AUTO 110L.....1 DESL 120.....4 DESL 120L.....3 ENGL 101.....3 Hum/Sci/Math Elec.....3 Total Hours: 19	AUTO 110.....3 AUTO 110L.....1 DEER 161.....1 DEER 161L.....2 DEER 163.....2 DEER 163L.....1 ENGL 101.....3 Math Elective.....3 Welding Elec.....2 Total Hours: 18	AUTO 110.....3 AUTO 110L.....1 DEER 163.....2 DEER 163L.....1 ENGL 101.....3 Math Elective.....3 Welding Elec.....2 Total Hours: 15
Semester II	Semester II	Semester II	Semester II
DESL 130.....4 DESL 130L.....3 DESL 140.....2 DESL 140L.....2 DRAF 120.....2 SPCH 143.....3 Math Elective.....3 Total Hours: 19	DESL 130.....4 DESL 130L.....3 DESL 140.....2 DESL 140L.....2 MATH 101.....3 SPCH 143.....3 Total Hours: 17	AGBS 250.....2 DEER 150.....2 DEER 150L.....1 DESL 130.....4 DESL 130L.....3 DESL 140.....2 DESL 140L.....2 SPCH 143.....3 Total Hours: 19	AGBS 250.....2 DEER 150.....2 DEER 150L.....1 DESL 130.....4 DESL 130L.....3 DESL 140.....2 DESL 140L.....2 SPCH 143.....3 Total Hours: 19
Semester III	Semester III	Semester III	Semester III
CHMT 100.....4 DESL 215.....3 DESL 215L.....2 DESL 240.....3 DESL 240L.....2 Hum/Math/Soc Sci or Writing Elective.....3 Total Hours: 17	DESL 215.....3 DESL 215L.....2 DESL 240.....3 DESL 240L.....2 ENGL 108.....3 PFWL 100 or PFWL 115/HLTH 211.....2-3 Soc Sci Elec.....3 Total Hours: 18-19	CHMT 100.....4 DESL 215.....3 DESL 215L.....2 DESL 240.....3 DESL 240L.....2 Hum/Math/Soc Sci or Writing Elective.....3 Soc Sci Elec.....3 Total Hours: 20	CHMT 100.....4 DESL 215.....3 DESL 215L.....2 DESL 240.....3 DESL 240L.....2 Social Science Elective.....3 Hum/Math/Soc Sci or Writing Elective.....3 Total Hours: 20
Semester IV	Semester IV	Semester IV	Semester IV
AUTO 230.....3 AUTO 230L.....1 DESL 260.....3 DESL 260L(R/W/S).....1 PFWL 100 or PFWL 115/HLTH 211.....2-3 Hum/Sci/Math Elec.....3 Soc Science Elec.....3 Total Hours: 16-17	AUTO 230.....3 AUTO 230L.....1 DESL 260.....3 DESL 260L(R/W/S).....1 HIST 125.....3 PHYT 101.....4 Humanities Elec.....3 Total Hours: 18	AUTO 230.....3 AUTO 230L.....1 DEER 237.....3 DEER 237L.....3 DEER 270(R/W/S).....3 DEER 270L.....1 PFWL 100 or PFWL 115/HLTH 211.....2-3 Hum/Math/Soc Sci or Writing Elective.....3 Total Hours: 19-20	AUTO 230.....3 AUTO 230L.....1 DEER 237.....3 DEER 237L.....3 DEER 270(R/W/S).....3 DEER 270L.....1 PFWL 100 or PFWL 115/HLTH 211.....2-3 Hum/Math/Soc Sci or Writing Elective.....3 Total Hours: 19-20
Total Credit Hours..... 70-71	Total Credit Hours..... 72-73	Total Credit Hours.....79-80	Total Credit Hours..... 76-77

The Computer Skills requirement is met by Computers Across the Curriculum.



SUPERVISED OCCUPATIONAL
DEER 190 – A 3 credit hour course
WORK EXPERIENCE AGREEMENT

Due Date: August 1
(Please type or print)

This document establishes an agreement between Vincennes University and the following John Deere dealership:

Name of dealership _____
 Address _____
 City/State/Zip _____
 Phone _____ Fax _____
 Dealer email _____

The agreement regards the supervised occupational work experience of:

Student Name _____
 Address _____
 City/State/Zip _____
 Home Phone _____ Cell Phone _____

John Deere User ID _____ *(Provided by sponsoring dealer)*

This agreement will permit said student to enter its establishment for the purpose of securing on-the-job training and knowledge in the John Deere Ag Tech Program.

- On-the-job training will extend for approximately 10 weeks from (start date) _____ through (end date) _____, with a minimum of _____ hours per week. At the end of this period this agreement will be terminated.
- The trainee will be supervised in the field by _____.
- Minimum wage must be paid during this time unless a higher wage is agreed upon between the student and employer.
- Training during the work experience shall be progressive. It shall provide for the trainee's passing from one experience to another so that the trainee may become exposed to different phases of the occupation. Common safety practices shall be adhered to.
- All complaints shall be made to and adjusted by the coordinator.
- The student may be dismissed for job failure at the employer's discretion.
- No regular employee shall be laid off to make a place for an occupational work experience trainee.
- Parties participating in this program will not discriminate in employment opportunities on the basis of race, sex, national origin, handicap, or religion.
- The student promises to abide by all implied and stated terms included in this agreement and shall be bound by school regulations during the supervised occupation work experience period. The student shall be responsible for his/her conduct while in training.
- The dealer will furnish work uniforms for the student during the school year for use in labs and during the summer work co-op.

I, _____ (student name), grant permission to Vincennes University to share my high school transcripts, pre-admission test results, and interview data with John Deere Company, NAAMC, Lenexa, KS.

 Employer's Signature

 Student's Signature

 Instructor's Signature

 Date



VINCENNES UNIVERSITY
JOHN DEERE Tech SCHOLARSHIP APPLICATION
(Complete both pages of application)

Due Date: June 1

Name: _____

Address: _____

Email address: _____

High School GPA _____

Estimated percentage of support for college expenses:

Parents _____% Student _____% *Other _____%

*Please list sources other than parent or student contribution _____

Other scholarships applied for: (use separate sheet if needed)

_____	Amount: _____	Awarded: _____
_____	Amount: _____	Awarded: _____
_____	Amount: _____	Awarded: _____
_____	Amount: _____	Awarded: _____
_____	Amount: _____	Awarded: _____

School Activities, Clubs, offices held, etc.:
(use additional sheet if necessary)

Community/Church Activities:
(use additional sheet if necessary)

Documentation that **MUST ACCOMPANY THIS APPLICATION**:

- High school transcripts
- Two letters of reference from individuals in a position to evaluate the student’s potential for commitment to his/her goals (ie. teacher, employer, coach, etc.)
- 250 word essay addressing the topic “My Career Goals” including schooling plans.

Deliver application package by June 1 to:

Tim Hale
Program Coordinator, John Deere Tech
Vincennes University
1002 N. First St., TB10
Vincennes, IN 47591
Work Phone: 812-888-6264
Home Phone 812-847-7114
Cell Phone: 812-384-7453
Email: thale@vinu.edu



Vincennes University John Deere Scholarship

ELIGIBILITY CRITERIA

The following guidelines are strongly focused on during selection of awardees, but the guidelines are flexible. Guidance counselors that encounter possible applicants with strong career potential, but applicant is outside of some guideline(s), may have student submit an application. Upon submission of such an application, the counselor must provide a reference letter as to why the applicant should be considered. However, in all cases the final decision as to application review, testing, interview and award will be made by the selection and award committee.

The applicant for the John Deere Tech scholarship must fulfill the following guidelines:

1. Academic Achievement: A 2.5 cumulative GPA calculated from the tenth, eleventh, and first half of grade twelve.
2. Attendance: A 90% attendance average for the tenth, eleventh, and first half of grade twelve.
3. Character Excellence: Provide at least two (2) character reference letters from individuals in a position to evaluate student's potential for commitment to his/her goals (ie. teachers, non-school personnel, ministers, business associates, coach, etc.). No students or relatives of student may give references.
4. Career Potential: Submit a minimum of 250 word typed essay, double spaced, using 12 font, statement including the applicant's occupational objectives and interests. Student should also include community and high school activities, work activities, and other information deemed appropriate.

The candidate must be willing to attend Vincennes University.

The candidate must be an applicant as a full-time student at Vincennes University. The entrance exam must be taken and acceptable scores received.

A break in enrollment or unsatisfactory progress in the program will terminate the scholarship except for extenuating circumstances (example: illness).



JOHN DEERE TECH TOOL LIST

3 Drawer or Larger Top Chest with Bottom Box

1/4" Drive Socket Set

3/16" – 1/2" Standard Depth
 3/16" – 1/2" Deep
 4mm – 13mm Standard Depth
 4mm – 13mm Deep
 Extensions Short, Medium, Long
 Ratchet Handle
 Universal Joint

3/8" Drive Socket Set

3/8" – 3/4" Standard Depth 12 Point
 3/8" – 3/4" Deep 6 Point
 10mm – 19mm Standard Depth
 10mm – 19mm Deep
 Extensions Short, Medium, Long
 Ratchet Handle
 Universal Joint
 3/8" – 3/4" Sq Dr Flexible Socket
 Torque Wrench 0-250 in-lb.

1/2" Drive Socket Set

1/2" – 1 1/8" Shallow
 1/2" – 1 1/8" Deep
 13mm – 32mm Shallow
 13mm – 32mm Deep
 Sq Dr Stud Remover Tool
 Breaker Bar
 Extensions Short, Medium, Long
 Ratchet Handle
 Universal Joint
 Torque Wrench 0-250 ft-lb.

Combination Wrenches

Standard 3/8" – 1 1/4"
 Metric 6mm – 26mm

Flare Nut Wrenches

Standard 3/8" – 3/4"
 Metric 7mm – 19mm

Screwdrivers

Blade Type
 1"
 6"
 9"
 12"

Adjustable Wrenches

1 – 8"
 1 – 12"

Allen Wrench Sets

Standard .050" – 3/8"
 Metric 2mm – 12mm

Torx Wrench Set

T – 15 to T – 55

Pipe Wrench 10" or 14"

20" Reversing Chain Wrench

Pliers

Adjustable Joint
 Locking Pliers
 Needle Nose
 Side Cutters
 Slip-joint
 Snap Ring
 Small Reversible
 Large Reversible
 Flat w/ 1 3/4" min. opening
 Brake Spring
 Battery Nut

Files

12" Fine
 12" Coarse
 12" Half Round
 Round
 6" Triangle

Offset

Phillips

1" #2
 6" #1, #2
 12" #3

Hammers**Ball Peen**

16 oz.
24 oz.

Plastic

2 ½ lb h. d.

Punches

Pin 3/16" – 3/8"
Center 5"
Cold Chisel
 3/8" Blade – 5" Length
 5/8" Blade – 6" Length
 7/8" Blade – 7" Length
Starter 3/16" – 3/8"
Brass Punch

Feeler Gauges

.005" - .050"
.005mm - .070mm

Hacksaw

Cotter Key Extractor
Extractor Set (Broken Bolt)
Drill Bits 1/16" – 1/2"
Wire Brush
Measuring Tape 12 Foot
Knife
Flexible Retrieving and Holding Tool
Magnetic Pickup Tool (Telescoping)
Inspection Mirror (Adjustable All Angles)
Battery Post Cleaner
Battery Terminal Clamp Puller
Digital Multimeter (Fluke 73 Series)
Crimp/Stripper Tool
Set Starter – Jumper Wires w/ Clips
Valve Core Replacement Tool
Pair Safety Glasses
Pair Work Gloves
Flashlight
Tire Gauge (Truck)
Tire Air Chuck
O-ring Pick Set
Hearing protection

Miscellaneous

Rolling Head Pry Bar
15" Aligning Bar
Filter Wrench
Gasket Scraper 1" Wide

-
1. On selection of tool box, it should be large enough to allow separation of tools to allow student to work efficiently without spending unnecessary time locating proper tool.
 2. Tools should always be kept clean and in good proper condition.
 3. All tools should be marked with a personal identification mark.
 4. Extra tools may be required if need arises.

INSURANCE COVERAGE OF TOOLS AND OTHER PERSONAL ITEMS IS THE RESPONSIBILITY OF THE STUDENT.



Are you ready?

- Complete and submit application to VU
- Receive acceptance letter
- Wait to receive letter regarding campus orientation, placement testing, and class registration
- Arrive on campus on assigned date as listed in above letter. This will be a full day – be well rested and alert for placement testing, and arrive on time.
- While on campus for testing on assigned date, meet with your advisor to register for classes. Write down any questions ahead of time that you may have in order to discuss them with your advisor at this time.
- While on campus on assigned date for placement testing and registration, many tool suppliers will be available for you to place your tool orders at a highly discounted cost. Suppliers will only be available on this date.

Apply to this program:

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- Receive acceptance letter
- Wait to receive letter regarding campus orientation, placement testing, and class registration
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