



John Deere Construction & Forestry North Dakota State College of Science Partnership

Information Sheet

John Deere Construction and Forestry Division and their dealers have partnered with NDSCS to provide an educational opportunity for students who are sponsored by a John Deere Construction and Forestry (C&F) dealer beginning Fall Semester 2014.

This initiative is designed to prepare Diesel Technology students to diagnose, service, repair and rebuild John Deere construction equipment used by customers nationwide.

During their first year, students are given extensive training and practical experiences in servicing all types of engines, drive trains, hydraulic systems and electrical systems found on trucks, agricultural and industrial equipment. Students enrolled will also learn the theory of operation along with the latest repair and diagnostic procedures available in the diesel industry. Their second year work will primarily focus on John Deere construction equipment.

To qualify, students must secure a sponsorship with a participating John Deere C&F dealer. An internship or cooperative educational experience will also be required.

Diesel Technology Curriculum

Course	Course Title	Credits
DTEC 109	Air Conditioning for Diesel Technology	2
DTEC 115	Introduction to Light and Medium Duty Engines	4
DTEC 125	Introduction to Heavy Duty Drive Systems	4
DTEC 155	Electricity for Diesel Technology	4
DTEC 164	Introduction to Mobile Hydraulics	4
DTEC 185	Diesel Fuel Injection Systems	4
DTEC 215	Heavy Duty Diesel Engines	7
DTEC 225	Heavy Duty Drive Systems	7
DTEC 255	Heavy Duty Chassis Electrical Systems	7
DTEC 265	Mobile Hydraulic Systems Diagnostics and Repair	7
DTEC 297	Cooperative Education	2
MFGT 110	Industrial Shop Practices	2

Related/General Education Courses

CIS 101	Computer Literacy	2
ENGL 110	College Composition I	3
English/Communication elective (choose one)		3
ENGL 105	Technical Communications	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
COMM 110	Fundamentals of Public Speaking	
Wellness elective(s)		2
MATH 120	Basic Mathematics I	2
MATH 123	Basic Mathematics II	2
MATH 125	Basic Mathematics III	2
PSYC 100	Human Relations In Organizations	2
FYE 101	Science of Success	1
Total Required Credits		73

Admission Requirements

The applicant must be a high school graduate or equivalent. Students considered for acceptance must complete all admission requirements.

The applicant must have a minimum ACT score of 15 for both English and Reading or complete the COMPASS Placement Test with a minimum score of 49 in English/Writing and a minimum score of 70 in Reading. Special requirements include the completion of a Differential Aptitude Test (DAT) with a minimum score of 70% and securing a participating John Deere Construction and Forestry dealership sponsor. For information on the DAT exam, contact NDSCS Enrollment Services at 701-671-2258.

Applicants not meeting the above requirements are encouraged to visit with diesel department personnel or the Technologies and Services Division academic counselor for strategies to meet the admission requirements.

Award

Upon successful completion of the required courses, students will be awarded an Associate in Applied Science degree in Diesel Technology – General Diesel.

Contact Information

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