



Information Guide

Caterpillar® Dealer Academy

A ThinkBIG School

Associates in Applied Science Degree

With Major in Diesel Technology

Sponsored by:

[Blanchard Machinery](#)

[Carolina CAT](#)

[Gregory Poole](#)



Table of Contents

Table of Contents	1
College Contacts	2
Dealer Contacts	2
Mission and Purpose	3
Program Structure	3
Accreditation	3
Program Courses.....	4
Curriculum Schedule	6
Estimated Cost.....	7
Admissions Checklist and Test Scores	8
Registration Checklist.....	9
FAQ	10
Quick Reference Information	11
Campus Map	12



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Caterpillar Dealer Academy

The Caterpillar Dealer Academy is a cooperative two-year college-level student technician education program, which leads to an Associate in Applied Science degree with a major in Caterpillar Service Technology. Florence-Darlington Technical College, working in close relationship with the sponsoring Caterpillar dealers, administers the program activities. The program is exclusively by and for the sponsoring Caterpillar dealers.

Mission

The Caterpillar Dealer Academy, a partnership between local Caterpillar dealers and Florence-Darlington Technical College, builds the foundation for technicians to service Caterpillar equipment with excellence and professionalism.

Purpose

Applying the skills learned at the Caterpillar Dealer Academy will allow technicians to launch their career within the Caterpillar dealer network.

Program Structure

During the two-year program, students spend approximately half of their time each semester at Florence-Darlington Technical College. FDTC facilitates the technical and general education courses required to meet the Southern Association of Colleges and Schools requirements for the Associates of Applied Science Degree. This program helps you to develop the skills you need to *diagnose* and repair Caterpillar equipment.

The remaining time is spent working at one of the sponsoring dealers as a paid intern. Content studied at school is reinforced in the working world at the sponsoring dealership. At the completion of this program, students earn an Associate of Applied Science degree, one year of Caterpillar dealer experience and a year's wages which are earned over the sponsored internship.

As a Service Technician, you'll work on some of the most advanced and hardest working machines in the world. You will be a highly skilled, technically trained, in-demand member of the worldwide Caterpillar family. As you develop the skills, experience and motivation, you'll have opportunities to advance into new jobs

Accreditations: This program has been accredited by the Associated Equipment Distributors or A.E.D.





Program Courses

General Education Courses

Course Prefix	Course Number	Course Name	Class Hours	Lab Hours	Credit Hours
ECO	201	Economic Concepts	3	0	3
ENG OR ENG	160 101	Technical Communications English Composition I	3 3	0 0	3 3
ENG OR ENG	260 102	Advanced Technical Communications English Composition II	3 3	0 0	3 3
MAT OR MAT	170 110	Algebra, Geometry, and Trigonometry I College Algebra	3 3	0 0	3 3
XXX	XXX	Elective: Humanities/Fine Arts	3	0	3
Totals:			15	0	15

Required Major Core Courses

Course Prefix	Course Number	Course Name	Class Hours	Lab Hours	Credit Hours
DHM	101	Intro to Diesel Engines	2	6	4
DHM	125	Diesel Fuel Systems	2	3	3
DHM	156	Fundamentals of Transmissions and Torque Converters	2	3	3
DHM	173	Electrical Systems I	2	3	3
DHM	231	Diesel Air Conditioning	1	3	2
DHM	265	Hydraulic Systems	2	3	3
Totals:			11	21	18



Other Courses Required for Graduation

Course Prefix	Course Number	Course Name	Class Hours	Lab Hours	Credit Hours
CWE	114	Cooperative Work Experience I Internship #1	0	20	4
CWE	124	Cooperative Work Experience II Internship #2	0	20	4
CWE	214	Cooperative Work Experience III Internship #3	0	20	4
CWE	224	Cooperative Work Experience IV Internship #4	0	20	4
DHM	111	Introduction to Caterpillar	1.5	1.5	2
DHM	266	Machine Hydraulic Systems	2	3	3
DHM	267	Undercarriage/Final Drive	2	3	3
DHM	268	Caterpillar Engine Performance	1	3	2
DHM	269	Diagnostic Testing	1	3	2
DHM	270	Caterpillar Machine Specific Systems	2	3	3
DHM	273	Electrical Systems II	2	3	3
WLD	116	Welding (Caterpillar Students)	1	3	2
Totals:			12.5	102.5	36
Required Minimum Credit Hours:		69			



Curriculum Schedule

Semester 1 (Fall)

DHM 111 Introduction to Caterpillar
DHM 101 Intro to Diesel Engines
MAT 170 Algebra, Geometry, And Trigonometry
OR MAT 110 College Algebra
WLD 116 Welding
CWE 114 Cooperative Work Experience I

Semester 2 (Spring)

DHM 265 Hydraulic Systems
DHM 173 Electrical Systems I
ENG 160 Technical Communications
OR ENG 101 English Composition I
CWE 124 Cooperative Work Experience II

Semester 3 (Summer)

DHM 231 Diesel Air Conditioning
DHM 125 Diesel Fuel Systems
DHM 156 Fundamentals of Transmissions
and Torque Converters
DHM 266 Machine Hydraulic Systems

Semester 4 (Fall)

CWE 214 Cooperative Work Experience III
DHM 267 Undercarriage/Final Drive
DHM 273 Electrical Systems II
ENG 260 Advanced Technical Communications
OR ENG 101 English Composition II
Elective: Humanities/Fine Arts

Semester 5 (Spring)

CWE 224 Cooperative Work Experience IV
DHM 268 Caterpillar Engine Performance
DHM 269 Diagnostic Testing
DHM 270 Caterpillar Machine Specific Systems
ECO 201 Economic Concepts

Minimum Total Credit Hours: 69



Estimated Cost 2017-2018

All students in the Caterpillar program will receive the in state/in county rate.

Semester 1	In-county	Credit Hours	Total
Tuition fee per credit hour	\$171.00	15	\$2,565.00
Technology fee per credit hour (\$50) cap	\$4.00		\$50.00
Activity fee per term	\$35.00		\$35.00
Books and Supplies			\$400.00
			\$3,050.00
Semester 2	In-county	Credit Hours	
Tuition fee per credit hour	\$171.00	13	\$2,223.00
Technology fee per credit hour (\$50) cap	\$4.00		\$50.00
Activity fee per term	\$35.00		\$35.00
Books and Supplies			\$400.00
			\$2,708.00
Semester 3	In-county	Credit Hours	
Tuition fee per credit hour	\$171.00	11	\$1,881.00
Technology fee per credit hour (\$50) cap	\$4.00		\$44.00
Activity fee per term	\$35.00		\$35.00
Books and Supplies			\$200.00
			\$2,160.00
Semester 4	In-county	Credit Hours	
Tuition fee per credit hour	\$171.00	16	\$2,736.00
Technology fee per credit hour (\$50) cap	\$4.00		\$50.00
Activity fee per term	\$35.00		\$35.00
Books and Supplies			\$400.00
			\$3,221.00
Semester 5	In-county	Credit Hours	
Tuition fee per credit hour	\$171.00	14	\$2,394.00
Technology fee per credit hour (\$50) cap	\$4.00		\$50.00
Activity fee per term	\$35.00		\$35.00
Books and Supplies			\$400.00
Graduation Application Fee			\$25.00
Estimated total cost of tuition, books and fees			\$2,904.00
Total Estimated Tuition and Fees			\$14,043.00



Admissions Checklist

- Complete the on-line application by visiting our website at: www.fdtc.edu
- Contact the person from the dealership closest to you and inform them of your interest in the Caterpillar Dealership Service Technician Program (Dealer Contacts).
- Return the Information Release Form to Florence-Darlington Technical College.
- Submit SAT or ACT scores (not valid after five years) or schedule the Accuplacer and DAT tests with the appropriate dealership.
- Submit an official high school transcript or GED.
- Submit any college transcripts from all colleges you have attended. (An official transcript is submitted by mail from the school or college attended or hand-delivered in a sealed envelope and includes graduation date, school seal and signature of a school official.)
- Complete the FAFSA online at www.fafsa.ed.gov. It takes 4-6 weeks to complete this process. The financial aid process should begin at least two months prior to registration.

Test Procedures:

Applicants will be required to take the Accuplacer test, if SAT or ACT scores are below those required for the program. Students must place into ENG 160 and MAT 170. The DAT Mechanical Reasoning test is also required. Please contact the appropriate dealership regarding the time and place to take your placement tests. Admissions information may be shared with your Caterpillar dealer for further consideration.

Minimum Caterpillar Test Scores

Test Type	Minimal Math Score Needed	Minimal English/Verbal Score Needed
ACT	16	20
SAT	380	480
Accuplacer	AR 61 and EA 20	SS=71 and RC=75
Compass	PA=60	W=78, R=81

Minimum DAT Mechanical Reason Scores:

DAT 70 or DAT >60 + Dealer Testing

Note: Test scores cannot be waived even if the student is Life Scholarship eligible. If the applicant is not successful in the first two attempts of the Accuplacer test, a free 8 hour tutoring session is required before the student can make a third attempt. No fourth attempt will be allowed.



Registration Check List

Registration for classes will be done by a representative of the Caterpillar Dealer Academy once the following items are complete:

- All items required in the application checklist
- A Caterpillar Dealer Sponsorship is secured
- Departmental Approval

After Registration

- Confirm registration with a Caterpillar faculty member
- Attend Orientation
- Attend classes starting in the first eight weeks of the fall semester.



Frequently Asked Questions

What are the requirements of the program?

The requirements for the program are set to increase the applicant's success rates during the first year of the program. Academic requirements listed above reflect minimum scores for being accepted into the program. In addition to the schools requirements, one should work with your sponsoring dealer as if applying for a fulltime job. You can expect a mechanical aptitude test, multiple interviews, a background check, drug screening and a physical. Please contact your dealer sponsor for more details and specific expectations at the sponsoring dealership.

What is a typical schedule like?

During the first semester a typical schedule is 8:00am – 4:30pm Monday – Thursday with half a day of classes on Friday. Each semester contains an eight week internship for which students are paid to work at their sponsoring dealers. The internship schedule may vary to meet the needs of the local dealership and workload. A minimum of 300 hours of work experience is expected during each internship. Once back for the second semester, a four day school week is the expected (Monday – Thursday) with classes between 7:30 am and 5:30 pm.. The summer schedule focus entirely on Caterpillar classes and has an extended time allotment for work at the dealership. As students transition into the second year, the eight week rotations continue with the internship leading in the first eight weeks and the school term occurring in the second eight week term until completion of the program in semester five.

Do I have to have a Caterpillar Dealer Sponsor?

Yes, a sponsoring Caterpillar dealership is an essential part of this sponsored program and is a requirement for students participating in the program.

Do I get paid while I am in school?

During the internship experience, students are paid on an hourly basis by their sponsoring dealership. This does not extend to hours attending classes at FDTC.

Is there campus housing?

Currently FDTC does not offer housing. Please contact your sponsoring dealer for details and living arrangements during school as there are dealer arranged apartments that can be leased to a sponsored student by the dealership.

Do I need to purchase tools for this program?

Tools are a requirement to enter the technical trades. Your sponsoring dealer will help you get started with your first set of hand tools. Remember to ask about the tool program when you talk with your dealer. Keep in mind that this is a basic set of tools and you will need to budget according to the area you intend to eventually work to round out your tools. Tools are provided at the college for labs and class work by your dealer.



Quick Reference Information

Student IDs are made in the Student Activities office located on the lower level of building 5000. This office is between the Book Store and Subway.

Parking Permits are required by all Students, Faculty, Staff and Visitors. You may obtain your parking permit by visiting the security office located at the front entrance to the campus. To obtain your parking permit you need: current vehicle registration, current driver's license and student schedule. Visitors are issued temporary parking passes at the security office.

Business Office is located on the second floor of the 5000 building. This is where tuition payments are made and all business related needs are served.

Library is located in the 400 building. There are public computers and other library services available to students. The hours are typically extended to accommodate student needs. Please see the library for current times of operation.

NOTE: This area is under construction. The information and location will likely change during your time at FDTC.

Student Resource Center is located in the 200 building.

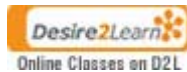
Password changes (all passwords are synced except D2L) <https://passchange.fdtc.edu>



Desire 2 Learn is the online course management system utilized in the Caterpillar Dealer Academy. In order to log in and access your course information using the format Firstname.Lastname1 and the same password you use for other student systems.

*** Students will not have access before the first day of class to individual class content. ***

<https://fdtc.desire2learn.com/>



Web Advisor is where you will check your balances, register, drop and add classes. You will also be able to get a current copy of your schedule here. <http://www.fdtc.edu/admissions/WebAdvisor.asp>

[Home](#) | [WebAdvisor](#) | [Desire2Learn](#) | [Help](#)

Help Desk.... Any Web Advisor, Desire 2 Learn or password problems that occur should be directed to the help desk 843.661.8123



Florence-Darlington Technical College

2715 West Lucas Street • Florence, SC 29501-0548

843-661-TECH (8324) • 800-228-5745

www.fdtc.edu

100 Building

Admissions
Assessment Center
Classrooms
Enrollment Center
Registrar's Office

200 Building

Classrooms
Library
Print Shop
Welding Program

300 Building

Classrooms
Success Center

600 Building

Caterpillar Program
Classrooms

650 Building

Auto Body
Automotive
HVAC

5000 Building

Administration
Bookstore (The Lamplighter)
Business Office
Cafeteria
Classrooms
Financial Aid Center
Grants and Research
Institutional Advancement
Labs
Personnel
President's Office
Project RUSH
Public Relations Office
Purchasing
Science Labs
Student Life Center
Student Support Services
TRIO Programs
Upward Bound
VP for Academic Affairs
VP for Business Affairs

7000 Building

Classrooms
Custodial
Distance Learning Classrooms
Division of Arts and Sciences
Math Hub
Media Production Center

800 Building - Grounds

Offices
Shop

900 Building - Child Development Center

Classrooms
Daycare Center
Early Childhood

Physical Plant

Offices
Shipping and Receiving
Shops

Southeastern Institute of Manufacturing and Technology (SiMT) *(located on the back of the FDTC campus)*

Advanced Manufacturing Center

3D Production Studio
Additive Manufacturing Center
CAD Labs
Campus Security
Classrooms
Conference Center
Continuing Education
Division of Technical Education
Engineering Technology
IT Department
Machine Tool Technology
Pee Dee Electric
Cooperative Auditorium
SiMT Staff

Business and Manufacturing Incubator

Offices

