

AUTOMOTIVE TECHNOLOGY (FORD ASSET OPTION), A.A.S.

Major Code: 0525

The Ford ASSET (Automotive Student Service Educational Training) program is a cooperative education partnership among SUNY Morrisville, Ford and Lincoln Dealers, and Ford Motor Company. The ASSET program allows technical and vocational students to gain on-the-job training at a sponsoring Ford or Lincoln dealership while earning an associate degree in Automotive Technology. Ford ASSET utilizes module-based teaching methods at an accelerated pace.

All vehicles, components, special tools, and service information are provided by Ford Motor Company. Instruction is delivered by Ford certified technical trainers in ASE Education Foundation certified labs and classrooms.

The 50,000 square-foot and 12,000 square-foot automotive facilities provide an excellent opportunity for students to develop their skills in all automotive repair and service areas. Students receive practical laboratory experience in brakes/steering/ suspension, drive-trains, electrical, engine mechanical, engine performance, air conditioning, and basic auto body collision repair in addition to liberal arts courses.

The Automotive Technology Program prepares students for an entry level position in the Automotive/Transportation field and provide the opportunity to complete ASE certifications. Areas for the career opportunities include diagnosis and repair of automobiles and small trucks, with a strong emphasis on computer control diagnostics along with the opportunity to develop as an automotive technician, service manager, parts manager, sales and body specialist, dealership manager, parts store manager and manufacturing facility manager.

The Automotive Technology Program prepares students to continue their education in a 4-year degree program. Students must maintain a GPA of 2.0 or greater in all Automotive and ASSET classes. Students must complete the A.A.S. degree with a minimum 2.0 grade point average to transfer into the Automotive B. Tech. program as a junior.

Program Requirement

Students are required to have a tool set and roll around tool box.

Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate professionalism appropriate for the auto service industry
- Perform diagnosis, service and repair of automotive internal combustion engines
- Perform diagnosis, service, and repair of automotive electrical/electronic systems
- Perform diagnosis, service, and repair of automotive heating and air conditioning systems
- Describe and follow safety and environmental guideline standards for the auto service industry
- Perform diagnosis, service, and repair of automotive steering and suspension

Upon completion of the ASSET program, students will be:

- Entry-level technicians Ford certified in several specialty areas
- Prepared to enter a career with their participating Ford or Lincoln dealership

Curriculum Requirements

A minimum of 64 credits is required for degree completion.

Code	Title	Credits
Major Field Requirements		
ASET 111	Intro to Automotive Service	2
ASET 112	Intro Auto Electrical Systems	3
ASET 113	Intro to Braking Systems	3
ASET 121	Engine Repair	3
ASET 122	Electrical & Electronic System	4
ASET 125	ASSET Cooperative Training I	1
ASET 211	Climate Control	2
ASET 212	Steering/Suspension Systems	3
ASET 213	Manual Transmission/Drive Trn	3
ASET 215	ASSET Cooperative Training 2	4
ASET 221	Automatic Transmissions	4
ASET 222	Engine Performance	4
ASET 225	ASSET Cooperative Training 3	1
AUTO 155	Intermediate Auto Electricity	3
	or ASET 160 Applied Electricity & Electron	
AUTO 102	Metals	3
SUNY General Education Communication Written and Oral as advised		3-6
SUNY General Education Mathematics as advised		3
SUNY General Education Natural Sciences as advised		3-4
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
PSYC 101	Introduction to Psychology	3
Liberal Arts and Sciences Electives as advised		2-5
Total Credits		60-67

Suggested Course Sequence

Course	Title	Credits
Year 1		
Fall		
ASET 111	Intro to Automotive Service (Fall Only)	2
ASET 112	Intro Auto Electrical Systems (Fall Only)	3
ASET 113	Intro to Braking Systems (Fall Only)	3
AUTO 102	Metals	3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education Mathematics as advised		
Credits		14
Spring		
ASET 121	Engine Repair (Spring Only)	3
ASET 122	Electrical & Electronic System (Spring Only)	4
ASET 125	ASSET Cooperative Training I (Spring Only)	1
AUTO 155	Intermediate Auto Electricity (Spring Only)	3
	or ASET 160 or Applied Electricity & Electron	
SUNY General Education Natural Sciences as advised		
Credits		11
Year 2		
Fall		
ASET 211	Climate Control (Fall Only)	2

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ASET 212	Steering/Suspension Systems (Fall Only)	3
ASET 213	Manual Transmission/Drive Trn (Fall Only)	3
ASET 215	ASSET Cooperative Training 2 (Fall Only)	4
PSYC 101	Introduction to Psychology	3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Credits		18
Spring		
ASET 221	Automatic Transmissions (Spring Only)	4
ASET 222	Engine Performance (Spring Only)	4
ASET 225	ASSET Cooperative Training 3 (Spring Only)	1
Liberal Arts and Sciences Electives as advised		5
Credits		14
Total Credits		57