AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY A.A.S.

Program Code: E.AUT.AAS

Associate in Applied Science (A.A.S.)

Graduation requirement — 71–73 semester hours

The Automotive Technology Program prepares graduates for entry-level employment in the automotive industry. The Automotive Technician Program is designed to give graduates skill to succeed in new car dealerships and independent service centers. This program is designed to develop strong technical skills along with managerial skills.

Curriculum for the Automotive Technology degree is based on the Master Automotive Service Technology standards (MAST) set by the Automotive Service Excellence (ASE) Education Foundation.

Students should plan their programs with a faculty advisor.

NOTE: Students considering transferring to a senior institution will need to contact the institution as soon as possible to determine the general education courses that are transferable and the required credit hours.

Program Notes*

- AFD elective courses are offered each semester and may be completed during other semesters than the suggested sequence.
- A valid driver's license is required for internship courses.
- MAT 124 or MAT 107 or MAT 108 may be taken instead of MAT 131.
- General Education electives are chosen from two of the following categories: communications, social/behavioral sciences, humanities/fine arts, mathematics, physical/life sciences. For more information, see General Education requirements on p. 63.
- WLX substitutions are accepted for WLD 111, WLD 112, and WLD 212.
 - WLD 111 = WLX 112 + WLX 113 + WLX 114 + WLX 115
 - WLD 112 = WLX 116 + WLX 117
 - WLD 212 = WLX 210 + WLX 211
- For the Motorsport concentration, one credit hour of AFD 212 may be substituted for AFD 273 if work experience does not meet AFD 273 placement requirements.
- ENG 102 has a prerequisite of ENG 101.

Required	Program Courses (35 hours)	Cr. Hrs.
AFD 112	Introduction to Power Trains	3
AFD 113	Automotive Chassis Systems	
	Maintenance and Light Repair	
AFD 115	Basic Chassis Electrical Systems	
AFD 117	Basic Automotive Electronics and	
	Computer Control Strategies	3
AFD 119	Chassis Electrical/Electronic System	S
	and Accessories	4
AFD 210	Automotive Work Experience Semir	nar2
AFD 231	Fuel and Emissions Diagnosis	4
AFD 234	Vehicle High-Voltage Systems	
AFD 295	Service Shop Operations	3

AUTOMOTIVE TECHNICIAN CONCENTRATION

Program Code: E.AUT.AAS.TECH

The Automotive Technician Program prepares graduates for entry-level employment in automotive dealerships and independent service centers in technical positions. The program is designed to develop strong technical skills along with managerial skills.

Required Concentration Courses (18 hours)

AFD 110	Automotive Maintenance
	and Light Repair 4
AFD 111	Automotive Powertrain Maintenance
	and Light Repair7
AFD 211	Auto Work Experience I
AFD 212	Auto Work Experience II
AFD 232	Multi-Cylinder Engine Overhaul5

Electives (3-5 hours)

Choose from the following courses:

WLD 111	Introduction to Welding	4
AFD 233	Automatic Transmissions	3
AFD 217	Basic Refrigeration	3
AFD 296	Motorsport Vehicle System Assessment	3
AFD 298	Motorsport Chassis Analysis	5
AFD 297	Motorsport Concepts and	
	Vehicle Preparation	4

Required General Education Courses (15 hours) Cr. Hrs.

ENG 101	Composition I
or ENG 111	Workplace Writing3
COM 103	Introduction to Public Speaking
or COM 120	Interpersonal Communication
or ENG 102	Composition II3
MAT 131*	Applied Mathematics3
General Edu	cation electives*6

Total Semester Credit Hours

*71-7*3

Suggested Full-time Sequence

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FALL	SPRING	SUMMER
1st Semester	2nd Semester	3rd Semester
AFD 110	AFD 111	AFD 211
AFD 113	AFD 115	AFD elective
AFD 210	ENG 101	
MAT 131	or ENG 111	
FALL	SPRING	
4th Semester	5th Semester	
AFD 112	AFD 119	
AFD 117	AFD 212	
AFD 232	AFD 231	
COM 103 <i>or</i> COM 120	AFD 234	
or ENG 102	AFD 295	
Gen Ed elec	Gen Ed elec	

AUTOMOTIVE TECHNOLOGY (CONT'D)

AUTOMOTIVE MANAGEMENT CONCENTRATION

Program Code: E.AUT.AAS.MGNT

The Automotive Management Program prepares graduates for entry-level positions in the automotive industry in a variety of environments, including technical, business and managerial areas. Graduates may work in new car dealerships, independent repair shops, or retail automotive businesses.

Required Concentration Courses (13 hours)

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AFD 110	Automotive Maintenance
	and Light Repair 4
AFD 111	Automotive Powertrain Maintenance
	and Light Repair7
AFD 211	Auto Work Experience I
AFD 212	Auto Work Experience II

Electives (9 hours)

Required General Education Courses (15 hours)

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ENG 101	Composition I	
or ENG 111	Workplace Writing	3
COM 103	Introduction to Public Speaking	
or COM 120	Interpersonal Communication	
or ENG 102*	Composition II	3
MAT 131*	Applied Mathematics	3
General Educ	cation electives*	6
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Total Semest	ter Credit Hours	72

Suggested Full-time Sequence

FALL 1st Semester	SPRING 2nd Semester	SUMMER 3rd Semester
AFD 110	AFD 111	AFD 211
AFD 113	AFD 115	Gen Ed elec
AFD 210	ENG 101 <i>or</i>	
MAT 131	ENG 111	

FALL	SPRING
4th Semester	5th Semester
AFD 112	AFD 119
AFD 117	AFD 231
AFD 212	AFD 234
COM 103 or	AFD 295
COM 120 or	BUS elec
ENG 102	BUS elec
	Gen Ed elec

AUTOMOTIVE MOTORSPORT CONCENTRATION

Program Code: E.AUT.AAS.MOSP

The Automotive Motorsport Program prepares graduates to qualify for entry level motorsport industry assembly, fabrication, and team member positions. The program is designed to build on a strong foundation of traditional automotive course work while offering innovative motorsport courses and handson opportunities.

Required Concentration Courses (19 hours)

AFD 232	Multi-Cylinder Engine Overhaul5
AFD 272	Motorsport Work Experience I
AFD 273	Motorsport Work Experience II1
AFD 296	Motorsport Vehicle System Assessment3
AFD 297	Motorsport Concepts
	and Vehicle Preparation 4
AFD 298	Motorsport Chassis Analysis5

Electives (2-4 hours)

Choose from the following electives:			
MFT 130	Basic Machine Processes3		
WLD 110	Beginning Gas and Arc Welding2		
WLD 111	Introduction to Welding 4		
WLD 112	Gas Metal Arc Welding2		
WLD 113	Gas Tungsten Arc Welding2		
WLD 212	Advanced Gas Metal Arc Welding2		
WLD 213	Advanced Gas Tungsten Arc Welding2		

Required General Education Courses* (15 hours)

ENG 101	Composition I	
or ENG 111	Workplace Writing	3
COM 103	Introduction to Public Speaking	
or COM 120	Interpersonal Communication	
or ENG 102*	Composition II	3
MAT 131*	Applied Mathematics	3
General Educ	cation electives*	6
Total Semest	ter Credit Hours	71-73

Cr. Hrs.

Suggested Full-time Sequence

Suggested i dil-time Sequence		
FALL 1st Semester AFD 113 AFD 210 AFD 297 MAT 131	SPRING 2nd Semester AFD 115 AFD 298 ENG 101 or ENG 111 WLD elec	SUMMER 3rd Semester AFD 296 Gen Ed elec
FALL 4th Semester AFD 112 AFD 117 AFD 232 COM 103 or COM 120 or ENG 102	SPRING 5th Semester AFD 119 AFD 231 AFD 234 AFD 272 AFD 273 AFD 295 Gen Ed elec	

Cr. Hrs.