

AUTOMOTIVE TECHNOLOGY

Students entering the Automotive Technology programs must have:

1. Finger and manual dexterity necessary to work mechanical and electrical systems.
2. Color discrimination necessary to differentiate wire and resistance color codes.
3. Near visual acuity and depth perception needed when working with small parts.
4. Hearing capability necessary to discover, analyze, and correct irregular vehicle noises.
5. Ability to climb, balance, stoop, kneel, and to lift heavy loads such as a tool box.

The above limitations may be waived if the student is equipped with mechanical and/or electrical devices and has obtained approval from the Chairperson of Automotive Technology and the Dean of Applied Science and Technology.

The Automotive Technology Department may waive college credit requirements for students attaining industry skill standards. The criteria for waiving a course will be based on current Automotive Service Excellence (ASE) certification in a specific area as well as having three recent years of employer verifiable work experience in that specific area. The waiver must be approved by the Automotive Department. Credit will be limited to a total of 16 semester hours and will be included in a limited by the 32 semester hour limit for non-traditional methods. The waiver will not be posted on the transcript until the student has satisfied college resident requirement. Credit waived is non-transferable. The ACE Guide will be utilized in establishing equivalencies. All documentation must be submitted by the requesting student.

The Automotive Technology Department has four programs:

1. Automotive Technology - Option I.
 - a. Associate of Applied Science Degree
 - b. One-Year Certificate of Completion
 - c. Specialized Certificates of Completion
 - <Transmission Specialist
 - <Performance Specialist
 - <Heating and Air Conditioning Specialist
 - <Brake and Front End Specialist
2. Automotive Technology - Option II, Ford MLR
3. GM Automotive Service Educational Program

ASSOCIATE OF APPLIED SCIENCE AUTOMOTIVE TECHNOLOGY (2643)

TOTAL CREDIT HOURS REQUIRED: 59-61

	Gen.	
Major	Educ.	Elective

YEAR I

First Semester	
AUMT 1305 Intro. to Automotive Tech. -----	3
AUMT 1307 Automotive Electrical Systems -----	3
AUMT 1310 Automotive Brake Systems -----	3
AUMT 1316 Suspension and Steering -----	3
Humanities/Fine Arts Requirement -----	3

Section 8. Academic Programs 141

	Major	Gen. Educ.	Elective
Second Semester			
AUMT 1319 Automotive Engine Repair -----			3
AUMT 1345 Automotive Heating & Air Conditioning -----			3
AUMT 2317 Engine Performance Analysis I -----			3
College MATH 1373 or Higher -----			3
Summer Semester			
AUMT 1366 Practicum I OR AUMT 2328 OR			
AUMT 2288 -----			2-3
AUMT 2313 Manual Drive Train -----			3
YEAR 2			

First Semester			
AUMT 2321 Automotive Electrical Lighting/Accessories -----			3
AUMT 2325 Automatic Transmission/Transaxles -----			3
AUMT 2334 Engine Performance Analysis II -----			3
Social & Behavioral Science OR			
Communication Requirement -----			3
Second Semester			
AUMT 2343 Automotive Emissions Licensing -----			3
AUMT 2366 Practicum II OR AUMT 1372 OR			
AUMT 2289 -----			2-3
AUMT 2437 Automotive Electronics -----			4
PHYS 1305 OR Higher -----			3
Elective (AUMT 2301 or ITSC 1301 or Higher) -----			3
TOTAL CREDIT HOURS: -----			44-46 ----- 12 ----- 3

Exit Point: Automotive Technician/Automotive Technician Enter-Level

**CERTIFICATE OF COMPLETION
AUTOMOTIVE TECHNOLOGY (2643)**

TOTAL CREDIT HOURS REQUIRED: 26-31

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----			3
AUMT 1307 Automotive Electrical Systems -----			3
AUMT 1310 Automotive Brake Systems -----			3
AUMT 1316 Steering & Suspension Systems -----			3
Second Semester			
AUMT 1319 Automotive Engine Repair -----			3
AUMT 2313 Manual Drive Train -----			3
AUMT 2317 Engine Performance Analysis I -----			3
AUMT 2321 Automotive Electrical Lighting and Accessories --			3
Summer I Semester			
AUMT 1366 Practicum I OR AUMT 2328 OR			
AUMT 2288 -----			2-3
Automotive Elective* -----			3-4
TOTAL CREDIT HOURS: -----			26-27 ----- 3-4

*Elective may be waived by the department chairperson

Exit Point: Entry Level Automotive Technician. Practicum students may elect to complete a Automotive Service/Special Projects course in Lieu of the required practicum course. Those individuals who wish to continue and pursue the AAS degree must follow the Automotive Technology - Option I degree plan and meet all other college requirements.

**CERTIFICATE OF COMPLETION
TRANSMISSION SPECIALIST (2719)**

TOTAL CREDIT HOURS REQUIRED: 17-22

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----			3
AUMT 1307 Automotive Electrical Systems -----			3
AUMT 2313 Manual Drive Train -----			3
Second Semester			
AUMT 2317 Engine Performance Analysis I -----			3
AUMT 2325 Automatic Transmission/Transaxle -----			3
AUMT 2366 Practicum II OR AUMT 1372 OR			
AUMT 2289 -----			2-3
Automotive Elective* -----			3-4
TOTAL CREDIT HOURS: -----			17-18 ----- 3-4

*Elective may be waived by the department chairperson
Exit Point: Entry-Level Transmission Repair Technician. Practicum students may elect to complete a Special Projects course in Lieu of the required practicum course. Those individuals who wish to continue and pursue the AAS degree must follow the Automotive Technology - Option I degree plan and meet all other College requirements.

**CERTIFICATE OF COMPLETION
PERFORMANCE SPECIALIST (2720)**

TOTAL CREDIT HOURS REQUIRED: 21-26

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----			3
AUMT 1307 Automotive Electrical Systems -----			3
AUMT 2317 Engine Performance Analysis I -----			3
AUMT 2334 Engine Performance Analysis II -----			3
Second Semester			
AUMT 2343 Automotive Emissions Licensing Prep -----			3
AUMT 2366 Practicum II OR AUMT 1372 OR			
AUMT 2289 -----			2-3
AUMT 2437 Automotive Electronics -----			4
Automotive Elective* -----			3-4
TOTAL CREDIT HOURS: -----			21-22 ----- 3-4

*Elective may be waived by the department chairperson
Exit Point: Entry-Level Performance Specialist Technician. Practicum students may elect to complete a Special Projects course in Lieu of the required practicum course. Those individuals who wish to continue and pursue the AAS degree must follow the Automotive Technology - Option I degree plan and meet all other College requirements.

**CERTIFICATE OF COMPLETION
HEATING & AIR CONDITIONING SPECIALIST (2721)**

TOTAL CREDIT HOURS REQUIRED: 17-22

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----	3		
AUMT 1307 Automotive Electrical Systems -----	3		
AUMT 1345 Heating and Air Conditioning -----	3		
Second Semester			
AUMT 1366 Practicum I OR AUMT 2328 OR			
AUMT 2288 -----	2-3		
AUMT 2317 Engine Performance Analysis I -----	3		
AUMT 2321 Automotive Electrical Lighting/Accessories -----	3		
Automotive Elective* -----			3-4
TOTAL CREDIT HOURS: -----	17-18		3-4

*Elective may be waived by the department chairperson

Exit Point: Entry-Level Automotive Heating and Air Conditioning Technician. Practicum students may elect to complete a Special Topics course in lieu of the practicum. Those individuals who wish to continue and pursue the AAS degree must follow the Automotive Technology - Option I degree plan and meet all other College requirements.

**CERTIFICATE OF COMPLETION
BRAKE AND FRONT END SPECIALIST (2722)**

TOTAL CREDIT HOURS REQUIRED: 17-22

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----	3		
AUMT 1307 Automotive Electrical Systems -----	3		
AUMT 1310 Auto Brake Systems -----	3		
AUMT 1316 Suspension and Steering -----	3		
Second Semester			
AUMT 1366 Practicum I OR AUMT 2328 OR			
AUMT 2288 -----	2-3		
AUMT 2317 Engine Performance Analysis I -----	3		
Automotive Elective* -----			3-4
TOTAL CREDIT HOURS: -----	17-18		3-4

*Elective may be waived by the department chairperson

Exit Point: Entry-Level Brake & Front End Specialist. Practicum students may elect to complete an Automotive Service course in lieu of the required practicum course. Those individuals who wish to continue and pursue the AAS degree must follow the Automotive Technology - Option I degree plan and meet all other College requirements.

**CERTIFICATE OF COMPLETION
FORD MAINTENANCE AND LIGHT-DUTY REPAIR (2761)**

TOTAL CREDIT HOURS REQUIRED: 28

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Introduction to Auto Tech -----			3
AUMT 1307 Automotive Electrical Systems -----			3
AUMT 2437 Automotive Electronics -----			4
AUMT 2317 Engine Performance Analysis I -----			3
Second Semester			
AUMT 1316 Steering and Suspension Systems -----			3
AUMT 1310 Automotive Brake Systems -----			3
AUMT 1345 Heating and Air Conditioning -----			3
AUMT 1319 Automotive Engine Repair -----			3
AUMT 1366 Practicum I/Automotive Service 2328 -----			3
TOTAL CREDIT HOURS: -----			28

Courses are presented in 4-week per course block format, M-F 8:00am - 1:00pm. Internships are arranged at participating Dealerships.

Exit Point: Entry-Level Ford Technician. Local Ford and Lincoln Mercury Dealerships, in cooperation with Ford Motor Company Training Division and the St. Philip's Automotive Technology Department have designed a two-semester Certificate Program to meet the needs of the dealerships. Students may be required to complete developmental courses prior to enrolling. Each semester is embedded with Ford factory-training credits/certifications. In addition to the College admission requirements, Ford MLR candidates must apply for admission in this program within the automotive department. Students selected for this program must be willing to be sponsored by a Ford/Lincoln Mercury dealership, which may require drug testing and various background checks (this process is dealership policy and is not associated with St. Philip's College).

**ASSOCIATE OF APPLIED SCIENCE
GENERAL MOTORS AUTOMOTIVE SERVICE
EDUCATIONAL PROGRAM (ASEP) (2638)**

TOTAL CREDIT HOURS REQUIRED: 60

	Major	Gen. Educ.	Elective
First Semester			
AUMT 1305 Intro. to Automotive Tech. -----	3		
AUMT 1307 Automotive Electrical Systems -----	3		
AUMT 1319 Automotive Engine Repair -----	3		
AUMT 1380 Cooperative I -----	3		
MATH 1373 OR Higher -----	3		
Second Semester			
AUMT 1310 Automotive Brake Systems -----	3		
AUMT 1316 Suspension and Alignment -----	3		
AUMT 1345 Automotive Heating & Air Conditioning -----	3		
AUMT 1381 Cooperative II -----	3		
SPCH 1311 OR Higher -----	3		
Third Semester			
AUMT 2321 Automotive Electrical Lighting & Accessories ----	3		
AUMT 2317 Engine Performance Analysis I -----	3		
AUMT 2334 Engine Performance Analysis II -----	3		
AUMT 2380 Cooperative III -----	3		
HIST 1301 OR Higher -----	3		
Fourth Semester			
AUMT 2313 Manual Drive Train -----	3		
AUMT 2335 Automatic Transmissions and Transaxles -----	3		
AUMT 2381 Cooperative IV -----	3		
ENGL 1301 OR Higher -----	3		
PHYS 1305 OR Higher -----	3		
TOTAL CREDIT HOURS:-----	45	15	

The General Motors Automotive Service Educational Program (GM ASEP) is a General Motors (GM) sponsored automotive service-training program leading to an Associate of Applied Science Degree. Students selected for this program must be sponsored by a GM dealership for on-the-job training. Each semester involves a full-time course load with embedded GM factory training and real world work experiences during the internship period. GM also awards factory-training credits for all program graduates. GM ASEP candidates must apply for admission within the automotive department, which is separate from the College admission process. Entrance into the program is dependant on the candidate's ability to meet minimum program standards. Prior to sponsoring a student, GM dealerships perform drug testing and various background checks. This process is a dealership policy and is not associated with the College.