



AUTOMOTIVE TECHNOLOGY

PROGRAM DESCRIPTION

The Automotive Technology program is a two-year, four semester program which prepares students for an Associate of Applied Science Degree. The program provides the necessary training to diagnose, test, and repair modern cars and light trucks. Graduates are ready for positions as entry-level automotive technicians, service writers, and with experience, service managers and automotive repair business owners.

The Automotive Technology program at Manhattan Tech is an Automotive Service Excellence (ASE) National Automotive Technicians Education Foundation (NATEF) certified program. Students in the program have the option to be certified by the Mobile Air Conditioning Society (MACS) in refrigerant recover/recycling.

Manhattan Tech has articulation agreements with Pittsburg State University, Kansas State University, and Fort Hays State University. Through these agreements, students may transfer their Manhattan Tech Credits towards a Bachelors degree.

PROGRAM OUTCOMES

- Possess skills for entry-level placement utilizing the laboratory/shop requirements identified by NATEF.
- Successfully complete the ASE certification examination.
- Develop skills in automotive diagnosis and repair.
- Develop effective communication and interpersonal skills and future continuing education.
- Demonstrate knowledge of automotive repair processes, activities and organization of work flow, direct communication flow in the work place, and maintain information accuracy throughout a project.
- Apply knowledge of the industry expectation of a quality employee, as related to timeliness and cleanliness.

This program aligns with the Kansas Board of Regents Curriculum.

Accreditation:



ASE Education Foundation

1503 Edwards Ferry Rd., NE Ste 401
Leesburg, VA 20176

Education Foundation 703.669.6650 info@ASEducationFoundation.org

ADMISSION REQUIREMENTS

- College Placement Assessment Criteria
- Current unrestricted driver's license
- A Window's-based device is required for the program

The mandatory cost of a required tool kit and uniform shirts will be added to student accounts during the semester the charges are incurred.



Automotive Technology Course Curriculum

Associates in Applied Science

66 Credit Hours

Technical Specialty Courses

51 Credit Hours

COURSE NO.	COURSE TITLE	CREDITS
Year 1 Fall Semester		
AMT 109	Intro to Automotive Technology	2
AMT 111	Electrical 1 <i>Cert A</i>	3
AMT 116	Electrical 2	2
AMT 121	Engine Performance 1 <i>Cert A</i>	3
AMT 125	Engine Performance 2	4
Year 1 Spring Semester		
AMT 149	Suspension & Steering 1 <i>Cert A</i>	3
AMT 152	Suspension & Steering 2	2
AMT 170	Brakes 1 <i>Cert A</i>	3
AMT 171	Brakes 2	2
AMT 180	Electrical 3	3
Year 2 Fall Semester		
AMT 200	Automatic Transmissions & Transaxles 1 <i>Cert A</i>	3
AMT 201	Automatic Transmissions & Transaxles 2	3
AMT 205	Manual Transmissions & Transaxles	4
AMY 221	Engine Repair 1	2
Year 2 Spring Semester		
AMT 250	Engine Repair 2	3
AMT 265	Engine Performance 3	3
AMT 270	Electrical 4	2
AMT 275	Heating & Air Conditioning <i>Cert A</i>	4

General Education Requirements

15 Credit Hours

COURSE NO.	COURSE TITLE	CREDITS
English		3 required
COM 105	English Composition I	3
COM 110	Technical Writing	3
Math		3 required
MAT 109	Technical Mathematics II	3
MAT 110	Intermediate Algebra or higher	3
Additional General Education		9 required

General education elective list is located on [page 028](#).

Certificate A Requirements

19 Credit Hours

Technical Specialty courses marked with "**Cert A**" (*The Certificate A is for students already employed in the automotive technology field who are seeking ASE certification*)