# AUTOMOTIVE TECHNOLOGY (ATA)

# ASSOCIATE IN APPLIED SCIENCE DEGREE

This curriculum prepares students for employment as automotive technicians. Through classroom study of automotive principles combined with hands-on experience, students learn about design, function, diagnosis and proper repair procedures for all major systems related to the automobile. These include engines, engine controls, electrical, braking, steering, suspension and air conditioning systems, transmissions and transaxles.

**PROGRAM OUTCOMES:**

Upon successful completion of the Morton College Automotive Technology program, a graduate will be able to:

1. Apply critical thinking skills to properly diagnose vehicle concerns.
2. Demonstrate the proper use of tools, equipment, and procedures when performing vehicle repairs.
3. Demonstrate the proper documentation of vehicle diagnosis and repairs.
4. Demonstrate the ability to work both independently and in a group.
5. Utilize common service information software programs to gather vehicle repair information.
6. Demonstrate competency in the eight ASE certification areas as found within the ATM curriculum.

| FIRST SEMESTER | | | CREDIT HOURS |
|---|---|---|---|
| ATM | 101 | Automotive Engine Design | 5 |
| ATM | 104 | Automotive Brakes | 3 |
| | | General Education Requirements | 6 |
| | | | Total 14 |

| SECOND SEMESTER | | | |
|---|---|---|---|
| ATM | 122 | Automotive Air Conditioning | 3 |
| ATM | 102 | Fuel Systems and Emission Controls | 3 |
| ATM | 105 | Automatic Transmissions | 4 |
| | | General Education Requirements | 6 |
| | | | Total 16 |

| THIRD SEMESTER | | | |
|---|---|---|---|
| ATM | 201 | Manual Transmissions and Transaxles | 3 |
| ATM | 202 | Automotive Electrical Systems | 4 |
| ATM | 208 | Automotive Computer Systems | 3 |
| PHS | 103* | Physical Science | 4 |
| | | General Education Requirements | 2 |
| | | | Total 16 |

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**FOURTH SEMESTER**

| | | | |
|---|---|---|---|
| ATM | 203 | Engine Performance | 5 |
| ATM | 206 | Steering and Suspension | 3 |
| ATM | 204 | Advanced Electrical Systems and Accessories | 3 |
| ATM | 253 | Successful Career & Life Strategies | 2 |
| | | General Education Requirements | 5 |
| | | Total | 18 |
| | | Overall Total | 64 |

NOTES:
* This course may be applied toward general education requirements.

Candidates for the Associate in Applied Science degree must earn a minimum of 23 semester hours in general education courses.