

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science Degree
Certificate of Achievement
Certificate of Competence

Program Coordinator **TBA**

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The goals of the program are: (1) to prepare students with the skills and competencies necessary for a successful career as an automotive technician; (2) to instill in students the work habits and attitudes necessary to work in a highly competitive field; and (3) to provide students with the basic skills necessary to become lifelong learners in order to keep abreast of the latest technological changes in the automotive field. In order to promote a student's readiness and success, prerequisites have been established for each AMT certificate and degree and for AMT courses. The competencies students are expected to achieve in the AMT program are based on the tasks prescribed by National Automotive Technician Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE) for technician certification.

Recommended high school preparation: Pre-Algebra, Electronics, Chemistry or Physics, Industrial Arts.

The Automotive Technology program is accredited by the National Automotive Technician Education Foundation (NATEF).

Ford ASSET Option

Automotive Student Service Educational Training (ASSET) is a Statewide program sponsored by Ford Motor Company, Ford and Lincoln/Mercury Dealers and Leeward CC. It is a two-year program designed to develop entry-level service technicians for Ford and Lincoln/Mercury dealerships. ASSET provides the student with a unique two-year work-study experience which leads to an Associate in Applied Science Degree (64 credits) in Automotive Technology.

The ASSET program is designed to provide Ford and Lincoln/Mercury dealerships with qualified technicians proficient in the latest automotive service technologies and methods. In addition, the program enables graduates to make advancements in their career paths. The cost of tools and supplies is approximately \$1,120. Students interested in enrolling in ASSET should see the AMT ASSET Instructor.

IMPORTANT

AA, AS, and AAS degrees and ASCs and CAs require a cumulative 2.0 GPR or better for all courses used to meet the degree or certificate requirements. Transfer coursework is not calculated into the GPR.

To graduate with a degree from a Leeward Community College, a student must have earned a minimum of 12 credits of program courses in the degree/major at Leeward.

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science in Automotive Technology

63-64 Credits

The Associate in Applied Science Degree is awarded to students who successfully complete both the required AMT and general education courses. The AAS degree enables students to enter the workforce. Graduates are able to seek employment in multiple areas in the automotive industry or related technical fields.

First Semester Requirements

| Course Alpha | Course Title | Hours | Credits |
|---------------------------------------|--------------------------------|-------|---------|
| AMT 20 | Introduction to Auto Mechanics | 70 | 2 |
| AMT 40 | Elect./Electronic Systems I | 150 | 6 |
| AMT 53 | Brakes | 140 | 4 |
| MATH 100 (or equivalent or higher) | Survey of Math | 45 | 3 |
| Total Semester Credits | | | 15 |

Second Semester Requirements

| Course Alpha | Course Title | Hours | Credits |
|------------------------|-----------------------------|-------|---------|
| ENG 100 | Composition I or equivalent | 45 | 3 |
| AMT 30 | Engines | 210 | 7 |
| AMT 55 | Suspension and Steering | 150 | 5 |
| Total Semester Credits | | | 15 |

Third Semester Requirements

| Course Alpha | Course Title | Hours | Credits |
|---|---------------------------|-------|---------|
| AMT 46 | Man. Drive-Train & Axles | 105 | 3 |
| AMT 50 | Auto Trans & Transaxles | 150 | 6 |
| AMT 41 | Elect./Electronic Sys. II | 105 | 3 |
| Natural Science Course (100 level or above) | | | 3-4 |
| Total Semester Credits | | | 15-16 |

Fourth Semester Requirements

| Course Alpha | Course Title | Hours | Credits |
|---------------------------------|-----------------------|-------|---------|
| AMT 40D | Engine Performance | 150 | 9 |
| AMT 43 | Heat A/C Vent. (HACV) | 105 | 3 |
| Social Sciences (100 and above) | | | 45 3 |
| Arts/Humanities (100 and above) | | | 45 3 |
| Total Semester Credits | | | 18 |
| Total Degree Credits | | | 63-64 |

Associate in Applied Science Automotive Technology Program Outcomes

- Upon successful completion of the Associate in Applied Science Degree in Automotive Technology graduates will be able to:
- Demonstrate the professional skills and knowledge required in the automotive industry.
 - Apply safety procedures required in shop practices.
 - Apply the principles necessary for the practical applications within the automotive industry.