



AUTOMOTIVE SERVICES TECHNOLOGY Degree Program

Career Curriculum 00AST0004
Associate in Applied Science
Minimum Hrs. 70
Major Code: 1.2 470604C

FIRST YEAR – FALL SEMESTER

Dept. No.	Hrs.	Gr.
AST 170 Engine Repair	4	—
AST 172 Introduction to Automotive Services	2	—
AST 173 Braking Systems	4	—
AST 180A Basic Electrical Systems	2	—
IND 138 Industrial Seminar	1	—
MAT 113 Introduction to Contemporary Mathematics OR	3	—
MAT 105 Vocational Mathematics OR	16	—
MAT 120 Elementary Statistics		

FIRST YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Gr.
AST 171A Ignition Systems	4	—
AST 171B Fuel and Exhaust Systems	4	—
AST 180B Starting and Charging Systems	2	—
AST 180C Electrical Accessories	2	—
ENG 101 English Composition I ¹	3	—
PSY 110 College Success and Career Planning OR	3	—
ATI 200 Applied Technologies Internship (Summer only)	18	—

¹ Requires a grade of "C" or higher.

The Automotive Services Technology AAS Degree is the parent program to:

- Electrical Systems Certificate Program (00AST0044)
- Engine Performance Certificate Program (00AST0043)
- Powertrain Repair Certificate Program (00AST0042)
- Suspension and Brakes Certificate Program (00AST0041)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

*John A. Logan College reserves the right to modify this curriculum guide as needed.
Please verify with your academic advisor the accuracy and time lines of this document.*

Effective Date: Fall 2008

All students registered for Automotive Services Technology classes will be required to furnish a basic tool set. The set includes the following:

Drive Sockets (1/4" sq.)

- (10) 6-pt Standard (5/32" through 1/2")
- (10) 6-pt. Metric (4, 5, 5.5, 6 through 12 mm)
- (1) Quick Release Ratchet
- (1) Extension

Drive Sockets (3/8" sq.)

- (9) 6-pt. or 12-pt. Standard (3/8" through 7/8")
- (10) 6-pt. or 12-pt. Metric (10mm through 19mm)
- (1) Ratchet
- (1) Extension (3")
- (1) Extension (6")

Drive Sockets (1/2" sq.)

- (4) 6-pt. or 12-pt. Standard (15/16", 1", 1 1/16", 1 1/8")
- (4) 6-pt. or 12-pt. Metric (21mm, 22mm, 24mm, 27mm)
- (1) Ratchet
- (1) Extension (3")

Wrenches (combination)

- (7) Standard (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
- (7) Metric (10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm)

Screwdrivers

- (2) Slotted (1 small, 1 large)
- (2) Phillips (1 small, 1 large)

Pliers

- (1) Slip Joint Pliers
- (1) Diagonal Cutting

Additional Tools

- (1) Hammer
- (1) Locking Tool Box

Additional Information: Principles of design and operation provide for an exact appreciation of the functions of automotive units. Coordinated laboratory work develops the ability to execute diagnostic tests and complete the repairs that are indicated. The curriculum prepares students for employment as line mechanics, diagnostic technicians, and industrial maintenance personnel, as well as shop managers, company technicians, factory representatives, or teachers.

Career Opportunities: Line mechanic, diagnostic technician, factory representative, factory technician, self-employment, automotive technician at dealerships, independent garages, automotive specialty shops, and parts-related businesses.