



FIRST SEMESTER – FALL

Dept. No.	Hrs.	Gr.
General Education Courses		
IND 138 Industrial Seminar	1	___
MAT 113 Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	___

Automotive Courses

First Half

AST 172 Introduction to Automotive Services	2	___
AST 173 Braking Systems	4	___

Second Half

AST 170 Engine Repair	4	___
AST 180A Basic Electrical Systems	<u>2</u>	___
	16	

SECOND SEMESTER – SPRING

Dept. No.	Hrs.	Gr.
General Education Courses		
ENG 101 English Composition I ¹ OR ENG 113 Professional Technical Writing ¹	3	___
PSY 110 College Success and Career Planning OR ATI 200 Applied Technologies Internship (Summer only)	3	___

Automotive Courses

First Half

AST 171A Ignition Systems	4	___
AST 180B Starting and Charging Systems	2	___

Second Half

AST 171B Fuel and Exhaust Systems	4	___
AST 180C Electrical Accessories	<u>2</u>	___
	18	

¹ Requires a grade of "C" or higher.

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: Spring 2017

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

THIRD SEMESTER – FALL

Dept. No.	Hrs.	Gr.
General Education Courses		
CIS 101 Introduction to Computers	3	___
SPE 115 Speech OR SPE 116 Interpersonal Communication	3	___

Automotive Courses

First Half

AST 200 Alternative Fuels	2	___
AST 280 Air Conditioning	4	___

Second Half

AST 273 Automotive Computer Electronics	2	___
AST 281 Suspension and Steering	<u>4</u>	___
	18	

FOURTH SEMESTER – SPRING

Dept. No.	Hrs.	Gr.
General Education Courses		
IAI Physical/Life Science or IAI Humanities/ Fine Arts Elective	3-5	___
IAI Social and Behavioral Science Elective	3	___

Automotive Courses

First Half

AST 270 Manual Drive Trains and Axles	4	___
AST 276 Emission Control Systems	2	___

Second Half

AST 271 Automatic Transmissions/Transaxles	4	___
AST 279 ASE Testing	<u>2</u>	___
	18	

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.