



**AUTOMOTIVE SERVICES TECHNOLOGY
Degree Program**

Career Curriculum
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 105 Vocational Mathematics*	3	___
	16	___

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	___

SECOND YEAR – FALL SEMESTER

Dept. No.	Hrs.	Gr.
AST 200 Alternative Fuels	2	___
AST 273 Automotive Computer Electronics	2	___
AST 280 Air Conditioning	4	___
AST 281 Suspension and Steering	4	___
CIS 101 Introduction to Computers	3	___
SPE 115 Speech OR	3	___
SPE 116 Interpersonal Communication	18	___

SECOND YEAR – SPRING SEMESTER

Dept. No.	Hrs.	Gr.
AST 270 Manual Drive Trains and Axles	4	___
AST 271 Automatic Transmissions/Transaxles	4	___
AST 276 Emission Control Systems	2	___
AST 279 ASE Testing	2	___
PSC 131 American Government	3	___
PSY 132 General Psychology	3	___
	18	___

¹ Requires a grade of "C" or higher.

* Higher level math will be required for students who plan to attend a 4-year institution.

*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, 2006

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.

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

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| <p>Drive Sockets (1/4" sq.)</p> <ul style="list-style-type: none"> (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 <p>Drive Sockets (3/8" sq.)</p> <ul style="list-style-type: none"> (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") <p>Drive Sockets (1/2" sq.)</p> <ul style="list-style-type: none"> (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") | <p>Wrenches (combination)</p> <ul style="list-style-type: none"> (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) <p>Screwdrivers</p> <ul style="list-style-type: none"> (2) Slotted (1 small, 1 large) (2) Phillips (1 small, 1 large) <p>Pliers</p> <ul style="list-style-type: none"> (1) Slip Joint Pliers (1) Diagonal Cutting <p>Additional Tools</p> <ul style="list-style-type: none"> (1) Hammer (1) Locking Tool Box |
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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.