



**AUTOMOTIVE SERVICES TECHNOLOGY**  
**Block Scheduling**  
**Degree Program**

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

**FIRST SEMESTER – FALL**

Dept. No.		Hrs.	Gr.
<b>General Education Courses</b>			
IND 138	Industrial Seminar	1	___
MAT 113	Introduction to Contemporary Mathematics OR MAT 105 Vocational Mathematics OR MAT 120 Elementary Statistics	3	___
<b>Automotive Courses</b>			
<b>First Half</b>			
AST 172	Introduction to Automotive Services	2	___
AST 173	Braking Systems	4	___
<b>Second Half</b>			
AST 170	Engine Repair	4	___
AST 180A	Basic Electrical Systems	2	___
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**SECOND SEMESTER – SPRING**

Dept. No.		Hrs.	Gr.
<b>General Education Courses</b>			
ENG 101	English Composition I <sup>1</sup>	3	___
PSY 110	College Success and Career Planning	3	___
<b>Automotive Courses</b>			
<b>First Half</b>			
AST 171A	Ignition Systems	4	___
AST 180B	Starting and Charging Systems	2	___
<b>Second Half</b>			
AST 171B	Fuel and Exhaust Systems	4	___
AST 180C	Electrical Accessories	2	___
		<u>18</u>	

**THIRD SEMESTER – FALL**

Dept. No.		Hrs.	Gr.
<b>General Education Courses</b>			
CIS 101	Introduction to Computers	3	___
SPE 115	Speech OR SPE 116 Interpersonal Communication	3	___
<b>Automotive Courses</b>			
<b>First Half</b>			
AST 200	Alternative Fuels	2	___
AST 280	Air Conditioning	4	___
<b>Second Half</b>			
AST 273	Automotive Computer Electronics	2	___
AST 281	Suspension and Steering	4	___
		<u>18</u>	

**FOURTH SEMESTER – SPRING**

Dept. No.		Hrs.	Gr.
<b>General Education Courses</b>			
PHY 121	Technical Physics	3	___
PSY 132	General Psychology	3	___
<b>Automotive Courses</b>			
<b>First Half</b>			
AST 270	Manual Drive Trains and Axles	4	___
AST 276	Emission Control Systems	2	___
<b>Second Half</b>			
AST 271	Automatic Transmissions/Transaxles	4	___
AST 279	ASE Testing	2	___
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<b>OPTIONAL</b>			
Dept. No.		Hrs.	Gr.
ATI 200	Applied Technologies Internship	1-3	___

<sup>1</sup> 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: 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.