

Associate in Applied Science
Toward a Degree in
**Automotive Services
Technology**

FIRST YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|---------------------------------------|-----------|-------|
| AST | 100 | Automotive Orientation and Safety | 2 | _____ |
| AST | 101 | Automotive Maintenance & Light Repair | 3 | _____ |
| AST | 183 | Brakes, Steering and Suspension I | 3 | _____ |
| AST | 180 | Electrical I | 3 | _____ |
| ORI | 100 | College Fundamentals (A, B, or C) | 1 | _____ |
| MAT | 115 | Applied Mathematics OR BUS 111 | 3 | _____ |
| | | | <u>15</u> | |

FIRST YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--|----------|-------|
| AST | 170 | Engine Repair | 3 | _____ |
| AST | 171 | Engine Performance I | 3 | _____ |
| AST | 190 | Electrical II | 3 | _____ |
| AST | 191 | Automotive Service Lab I IAI Social Sciences or Humanities Fine Arts | 4 | _____ |
| | | | <u>3</u> | _____ |
| | | | 16 | |

FIRST YEAR – SUMMER SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--------|----------|-------|
| COM | 115 | Speech | 3 | _____ |
| | | | <u>3</u> | |

SECOND YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|------------------------------------|-----------|-------|
| AST | 261 | Engine Performance II | 3 | _____ |
| AST | 282 | Automotive HVAC | 3 | _____ |
| AST | 283 | Brakes, Steering and Suspension II | 3 | _____ |
| AST | 291 | Automotive Service Lab II | 4 | _____ |
| ENG | 113 | Professional Technical | 3 | _____ |
| | | | <u>16</u> | |

SECOND YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|---|----------|-------|
| AST | 201 | Hybrid/EV History and Safety | 2 | _____ |
| AST | 202 | Hybrid/EV Diagnostic and Service | 3 | _____ |
| AST | 290 | Drivetrain Basics | 3 | _____ |
| AST | 292 | Automotive Service Lab III IAI Physical/Life Science | 4 | _____ |
| | | | <u>3</u> | _____ |
| | | | 15 | |

NOTES AND INFORMATION

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.

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