

# Automotive Technology – Toyota (A.A.S.) (Toyota T-TEN)

Curriculum Code: 1449

Semester Hours Required for Graduation: 72

## PROGRAM GOALS:

This competency-based program prepares students for employment at Toyota/Lexus dealerships in the area of vehicle repairs. College instruction is followed by a dealership cooperative work experience. Graduates will be prepared to work in the automotive industry with a specialty on the Toyota/Lexus product line.

## PROGRAM OUTCOMES:

- Interpret automotive contextual information to determine appropriate service actions.
- Collect and analyze printed and electronic vehicle data to correctly identify a system failure.
- Apply mathematical principles as they relate to the automotive industry.
- Evaluate digital oscilloscope graphing for the purpose of diagnostic philosophy.
- Interact effectively in a diverse automotive environment.
- Ability to work independently on e-learning modules and research papers to successful completion.
- Analyze data and formulate an effective repair philosophy.
- Clearly articulate in an automotive environment the specific diagnostic and repair process.

## ACADEMIC PREPARATION:

It is highly recommended that the following criteria be met to begin this program, and it is REQUIRED by the completion of 12 credits:

12th-grade reading is required (readiness to begin EN 101-Composition). (A score of 80 or higher on the placement exam is required.)

Competency in Elementary Algebra is required. College-level proficiency on Math Placement Examination.

## LIBERAL ARTS REQUIREMENTS

24 Semester Hours

EN 101	Composition	3
EN 102	Composition and Literature	3
HE 201	First Aid and Safety	3
HU ELE	Humanities Elective	3
MA 108	Technical Mathematics	3
PX 110	Technical Physics	3
SL ELE	Social Science Electives	6

## Program Requirements

48 Semester Hours

AU 117	Gas and Diesel Engines	4
AU 128	Introduction to Automotive Repair	4
AU 129	Basic Heating, Ventilation and Air Conditioning (HVAC)	3
AU 130	Basic Steering, Suspension and Brakes	4
AU 131	Work Study I	2
AU 132	Electricity and Electronics	4
AU 134	Engine Performance	6
AU 203	Advanced Automotive Operations	4
AU 211	Manual Transmissions and Drivelines	4
AU 212	Automotive Diagnostics	4
AU 213	Automatic Transmissions and Transaxles	4
AU 215	Body Electrical and Electronics	3
AU 231	Work Study II	2

**Grand Total** 72

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## SUGGESTED PROGRAM SEQUENCE

### *1st Semester*

AU 128	Introduction to Automotive Repair	4
AU 129	Basic Heating, Ventilation and Air Conditioning	3
AU 130	Basic Steering, Suspension and Brakes	4
AU 132	Electricity and Electronics	4
EN 101	Composition	3
Total		18

### *2nd Semester*

AU 117	Gas and Diesel Engines	4
AU 134	Engine Performance	6
AU 203	Advanced Automotive Operations	4
HE 201	First Aid and Safety	3
Total		17

### *Summer*

AU 131	Work Study I	2
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### *3rd Semester*

AU 211	Manual Transmissions and Drivelines	4
AU 215	Body Electrical and Electronics	3
EN 102	Composition and Literature	3
MA 108	Technical Mathematics	3
SL ELE	Social Science Elective	3
Total		16

### *4th Semester*

AU 212	Automotive Diagnostics	4
AU 213	Automatic Transmissions and Transaxles	4
HU ELE	Humanities Elective	3
PX 110	Technical Physics	3
SL ELE	Social Sciences Elective	3
Total		17

### *Summer*

AU 231	Work Study II	2
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**Career Opportunities: Dealership technician, repair shop owner, automotive component re-builder, parts department manager, service equipment representative, fleet technician.**