

# Northwest Louisiana Technical College

## Automotive Technology

Program Description & Curriculum

Revised March 2017

Effective January 2018

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals to engage in the servicing and maintenance of all types of automobiles at the entry level. The competencies in the automotive technology program directly correlate with the knowledge required to prepare an individual for the certification test given by the National Institute for Automotive Service Excellence (ASE).

### Degrees/Certificates:

**Associate of Applied Science (AAS), Technical Diploma (TD)**

**Certificate of Technical Studies (CTS)**

**Technical Competency Area (TCA)**

Available degrees and certificates may vary at each campus. Check with your local campus for more information.  
CIP 470604

| Course # -- Course Title                                       | Lecture/Lab Hours | Credit Hours | Clock Hours |
|--|-------------------|--------------|-------------|
| AUTO 1002 Introduction to Automotive Technology 2/0            |                   | 2            | 60          |
| AUTO 1542 Brakes 1/3   |                   | 4            | 150         |
| <b>TCA – Brake Technician</b>                                  |                   | <b>6</b>     | <b>210</b>  |
|  |                   |              |             |
| AUTO 1002 plus   |                   |              |             |
| AUTO 1671 Electronics I 1/4                                    |                   | 5            | 185         |
| AUTO 1680 Electronics II 0/5                                   |                   | 5            | 185         |
| <b>TCA – Electrical Technician</b>                             |                   | <b>12</b>    | <b>430</b>  |
|  |                   |              |             |
| AUTO 1002 plus   |                   |              |             |
| AUTO 1343 Transmission, Transaxle, & Manual Drives 1/3         |                   | 4            | 180         |
| JOBS 2450 Job Seeking Skills 2/0                               |                   | 2            | 30          |
| <b>TCA – Automatic Transmission &amp; Transaxle Technician</b> |                   | <b>8</b>     | <b>270</b>  |
|  |                   |              |             |
| AUTO 1002 plus   |                   |              |             |
| AUTO 1860 Engine Performance I 1/4                             |                   | 5            | 185         |
| AUTO 1870 Engine Performance II 0/4                            |                   | 4            | 150         |
| <b>TCA – Engine Performance Technician</b>                     |                   | <b>11</b>    | <b>395</b>  |
|  |                   |              |             |
| AUTO 1002 plus   |                   |              |             |
| AUTO 1451 Steering and Suspension 1/5                          |                   | 6            | 210         |
| <b>TCA – Steering and Suspension Technician</b>                |                   | <b>8</b>     | <b>270</b>  |

**Course # -- Course Title                      Lecture/Lab Hours -- Credit Hours -- Clock Hours**

|                                       |     |          |            |
|---------------------------------------|-----|----------|------------|
| AUTO 1002 plus                        |     |          |            |
| AUTO 1140 Engine Repair               | 1/3 | 4        | 180        |
| <b>TCA – Engine Repair Technician</b> |     | <b>6</b> | <b>240</b> |

|  |     |           |             |
|--|-----|-----------|-------------|
| AUTO 1002 plus                                       |     |           |             |
| AUTO 1750 Heating and AC                             | 1/3 | 4         | 180         |
| <b>TCA – Heating and Air Conditioning Technician</b> |     | <b>6</b>  | <b>240</b>  |
| <b>TD – Automotive Technician</b>                    |     | <b>45</b> | <b>1695</b> |

Following are additional CTS exit points: Students must have completed AUTO 1002  
**CTS – Engine Performance Technician                      21                      825**

Complete the following TCAs: All TCAs include Auto 1002

|  |  |           |            |
|--|--|-----------|------------|
| <b>TCA – Electrical Technician</b>         |  | <b>12</b> | <b>430</b> |
| <b>TCA – Engine Performance Technician</b> |  | <b>11</b> | <b>395</b> |
| <b>CTS – Electrical Technician</b>         |  | <b>21</b> | <b>960</b> |

Complete the following TCAs: All TCAs include Auto 1002

|  |  |           |            |
|--|--|-----------|------------|
| <b>TCA – Engine Repair Technician</b>                          |  | <b>6</b>  | <b>240</b> |
| <b>TCA – Automatic Transmission &amp; Transaxle Technician</b> |  | <b>8</b>  | <b>270</b> |
| <b>TCA – Brake Technician</b>                                  |  | <b>6</b>  | <b>210</b> |
| <b>TCA – Heating and Air Conditioning Technician</b>           |  | <b>6</b>  | <b>240</b> |
| <b>CTS – Power Train Technician</b>                            |  | <b>20</b> | <b>990</b> |

Complete the following TCAs: All TCAs include Auto 1002

|  |  |          |            |
|--|--|----------|------------|
| <b>TCA – Engine Repair Technician</b>                          |  | <b>6</b> | <b>240</b> |
| <b>TCA – Automatic Transmission &amp; Transaxle Technician</b> |  | <b>8</b> | <b>270</b> |
| <b>TCA – Steering and Suspension Technician</b>                |  | <b>6</b> | <b>270</b> |
| <b>TCA – Brake Technician</b>                                  |  | <b>6</b> | <b>210</b> |

**General Electives**

|                                     |     |   |     |
|-------------------------------------|-----|---|-----|
| AUTO 1150 Automotive Internship I   | 0/4 | 4 | 180 |
| AUTO 1250 Automotive Internship II  | 0/4 | 4 | 180 |
| AUTO 1350 Automotive Internship III | 0/2 | 2 | 90  |
| AUTO 1450 Automotive Internship IV  | 0/5 | 5 | 240 |
| AUTO 1550 Automotive Internship V   | 0/5 | 5 | 240 |
| AUTO 1670 Automotive Internship VI  | 0/4 | 4 | 180 |

With approval from the Chief Academic Officer/designee, the following courses may be substituted for any of the above course requirements.

|                                 |     |   |     |
|---------------------------------|-----|---|-----|
| AUTO 2991 Special Projects I    | 0/1 | 1 | 30  |
| AUTO 2993 Special Projects II   | 0/2 | 2 | 60  |
| AUTO 2995 Special Projects III  | 0/3 | 3 | 90  |
| AUTO 2996 Special Projects IV   | 3/0 | 3 | 45  |
| AUTO 2998 Special Projects V    | 1/0 | 1 | 15  |
| AUTO 2997 Practicum             | 0/3 | 3 | 135 |
| AUTO 2999 Cooperative Education | 0/3 | 3 | 135 |