

# MODEL ROUTE

|                        |  |                 |   |   |                                 |
|------------------------|--|-----------------|---|---|---------------------------------|
| School:                | School of Transportation   | Program Number: | 8226  |   |                                 |
| Program Title:         | Automotive Motive Power Technician in Partnership with FCA and TADA  | Credential:     | <input type="checkbox"/> Certificate        | <input type="checkbox"/> Graduate Certificate   | <input type="checkbox"/> Degree |
|                        |  |                 | <input checked="" type="checkbox"/> Diploma | <input type="checkbox"/> Advanced Diploma       |                                 |
| Program Delivery Mode: | <input checked="" type="checkbox"/> Co-Op <input type="checkbox"/> Online<br><input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid<br><input type="checkbox"/> Non Co-op | Duration :      | <input type="checkbox"/> 2 Semesters        | <input type="checkbox"/> 3 Semesters            |                                 |
|                        |  |                 | <input type="checkbox"/> 4 Semesters        | <input checked="" type="checkbox"/> 6 Semesters |                                 |
| Campus:                | Ashtonbee  |                 |   |   |                                 |

Intake: FALL 2020

| Course Code        | Course Title  | Co/Pre Requisite (Course Code) | Lab Hours          | Lecture Hours | Field Placement Hours | Course Delivery<br>ODL=Online<br>BLD=Blended<br>HYB = Hybrid | Total Course Hrs (Lab + Lecture + Field) | Weeks (14)   | Total Hours |
|--------------------|---|--------------------------------|--------------------|---------------|-----------------------|--|--|--------------|-------------|
| <b>Semester 1</b>  |   |                                | <b>Fall 2020</b>   |               |                       |  |  |              |             |
| AUTO 106           | Electrical Fundamentals                                   |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 107           | Workplace/Trade Practices                                 |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 108           | Fluid Power   |                                | 1                  | 1             |                       |  | 2  | 14           | 28          |
| AUTO 110           | Engine Systems 1  |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| MCAL 100           | Measurements and Calculations 1                           |                                | 0                  | 2             |                       |  | 2  | 14           | 28          |
| MPPS 101           | Motive Power Professional Skills                          |                                | 0                  | 3             |                       | Blended  | 3  | 14           | 42          |
| COMM 160/161       | College Communications 1*                                 |                                | 0                  | 3             |                       |  | 3  | 14           | 42          |
|                    |   |                                | 10                 | 12            |                       |  | 22                                       | <b>Total</b> | <b>308</b>  |
| <b>Semester 2</b>  |   |                                | <b>Winter 2021</b> |               |                       |  |  |              |             |
| AUTO 120           | Electrical Diagnosis 1                                    | P AUTO 106                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 121           | Steering, Suspension, and Brakes 1                        |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 122           | Drive Train Systems 1                                     |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 123           | Fuels & Emissions 1                                       |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| MCAL 200           | Measurements and Calculations 2                           | MCAL 100                       | 0                  | 2             |                       |  | 2  | 14           | 28          |
| GNED               | General Education Elective                                |                                | 0                  | 3             |                       |  | 3  | 14           | 42          |
| COMM 170/171       | College Communications 2*                                 | COMM 160/161                   | 0                  | 3             |                       |  | 3  | 14           | 42          |
| COOP 921           | Employment Preplacement                                   |                                | 0                  | 1             |                       |  | 1  | 14           | 14          |
|                    |   |                                |                    |               |                       |  |  | <b>Total</b> | <b>350</b>  |
| <b>Semester 2C</b> |   |                                | <b>Summer 2021</b> |               |                       |  |  |              |             |
| COOP 522           | Co-op Work Placement 1                                    |                                |                    |               | 4 Months              |  |  |              | 420         |
|                    |   |                                |                    |               |                       |  |  | <b>Total</b> | <b>420</b>  |
| <b>Semester 3C</b> |   |                                | <b>Fall 2021</b>   |               |                       |  |  |              |             |
| COOP 523           | Co-op Work Placement 2                                    |                                |                    |               | 4 Months              |  |  |              | 420         |
|                    |   |                                |                    |               |                       |  |  | <b>Total</b> | <b>420</b>  |
| <b>Semester 3</b>  |   |                                | <b>Winter 2022</b> |               |                       |  |  |              |             |
| AUTO 231           | Engine Systems 2  | P AUTO 110                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 232           | Electrical Diagnosis 2                                    | P AUTO 120                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 233           | Steering, Suspension, and Brakes 2                        | P AUTO 121                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 234           | Drive Train Systems 2                                     | P AUTO 122                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 235           | Fuels & Emissions 2                                       | P AUTO 123                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| FOPM 100           | Fixed Operations Management 1                             |                                | 0                  | 2             |                       |  | 2  | 14           | 28          |
| GNED 500           | Global Citizenship: From Social Analysis to Social Action |                                | 0                  | 3             |                       |  | 3  | 14           | 42          |
|                    |   |                                |                    |               |                       |  |  | <b>Total</b> | <b>350</b>  |
| <b>Semester 4</b>  |   |                                | <b>Summer 2022</b> |               |                       |  |  |              |             |
| AUTO 241           | Engine Systems 3 (Maintenance & Repair)                   | P AUTO 231                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 242           | Steering, Suspension, and Brakes 3 (Maintenance & Repair) | P AUTO 233                     | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 243           | Systems Diagnostics (Fuels/Elec)                          | P AUTO 232 and AUTO 235        | 2                  | 2             |                       |  | 4  | 14           | 56          |
| AUTO 244           | HVAC & ODP Certification                                  |                                | 2                  | 2             |                       |  | 4  | 14           | 56          |
| FOPM 200           | Fixed Operations Management 2                             | P FOPM 100                     | 0                  | 2             |                       | Blended  | 2  | 14           | 28          |
| GNED               | General Education Elective                                |                                | 0                  | 3             |                       |  | 3  | 14           | 42          |
| ENGL 219           | Communications for Motive Power Professionals             | P COMM 170/171                 | 0                  | 2             |                       |  | 2  | 14           | 28          |
|                    |   |                                |                    |               |                       |  |  | <b>Total</b> | <b>322</b>  |

Minimum Grade Required: Cumulative GPA of 2.0 or "C" Total Program Hours: **2170**

C = Co-Requisite; P = Pre-Requisite

**Notes:**

\* Students will be placed in the appropriate level based on skills assessment results.

◆ MPPS 101 (Motive Power Professional Skills) course in semester 1 is offered in a blended modality

◆ FOPM 200 (Fixed Operations Management 2) course in semester 4 is offered in a blended modality

Signature: \_\_\_\_\_  
School Dean/Chair

January 24, 2020  
 Revised Date