

# DIESEL POWER EQUIPMENT TECHNOLOGY

Program Code: E.PET.AAS

## Associate in Applied Science (A.A.S.)

Graduation requirement — 70 semester hours

Prepares students to maintain and repair machinery and equipment used in the agriculture, construction, and motor trucking industries.

### Program Notes\*

- Before enrolling in program-specific courses, students must be accepted into the program.
- A tool set is required for all technical program courses.
- Some courses may need to be taken during the summer.
- Must have valid driver's license.
- General Education electives are chosen from two of the following categories: communications, social/behavioral sciences, humanities/fine arts, mathematics, physical/life sciences. For more information, see General Education requirements on p. 66.

### Suggested Full-time Sequence

| <i>FALL</i>           | <i>SPRING</i>       | <i>SUMMER</i>       |
|-----------------------|---------------------|---------------------|
| <i>1st Semester</i>   | <i>2nd Semester</i> | <i>3rd Semester</i> |
| DPE 130               | DPE 230             | DPE 215             |
| DPE 151               | DPE 234             | DPE 238             |
| DPE 251               | DPE 239             |                     |
| MAT 131               | DPE 253             |                     |
| COM 103 or<br>COM 120 | ELT 111<br>WLD 111  |                     |

| <i>FALL</i>           | <i>SPRING</i>          |
|-----------------------|------------------------|
| <i>4th Semester</i>   | <i>5th Semester</i>    |
| DPE 110               | DPE 217                |
| DPE 135               | DPE 235                |
| DPE 236               | DPE 254                |
| AGB 214 or<br>MFT 121 | DPE 259<br>Gen Ed elec |
| ENG 101 or ENG 111    |                        |
| Gen Ed elec           |                        |

### Required Program Courses (55 hours)

**Cr. Hrs.**

|            |  |   |
|------------|--|---|
| AGB 214    | Precision Farm Technology                                  |   |
| or MFT 121 | Basic Machine Processes . . . . .                          | 3 |
| DPE 110    | Agricultural and Heavy Equipment<br>Power Trains . . . . . | 4 |
| DPE 130    | Introduction to Diesel Electrical . . . . .                | 4 |
| DPE 135    | Introduction to Mobile Hydraulics . . . . .                | 3 |
| DPE 151    | Diesel Fuel Systems . . . . .                              | 3 |
| DPE 215    | Diesel Work Experience I . . . . .                         | 2 |
| DPE 217    | Diesel Work Experience II . . . . .                        | 2 |
| DPE 230    | Electronic Systems and Accessories . . . . .               | 3 |
| DPE 234    | Vehicle Air Conditioning I . . . . .                       | 2 |
| DPE 235    | Advanced Hydraulics . . . . .                              | 2 |
| DPE 236    | Equipment Adjustment and Repair . . . . .                  | 4 |
| DPE 238    | Vehicle Air Conditioning II . . . . .                      | 1 |
| DPE 239    | Truck Suspension, Steering, and Brakes . . . . .           | 3 |
| DPE 251    | Diesel Engine Overhaul . . . . .                           | 4 |
| DPE 253    | Advanced Diesel Fuel Systems . . . . .                     | 3 |
| DPE 254    | Advanced Power Trains . . . . .                            | 3 |
| DPE 259    | Service Department Implementation . . . . .                | 3 |
| ELT 111    | Computer Applications for Technicians . . . . .            | 2 |
| WLD 111    | Introduction to Welding . . . . .                          | 4 |

### Required General Education Courses (15 hours)

|            |  |   |
|------------|--|---|
| ENG 101    | Composition I                          |   |
| or ENG 111 | Workplace Writing . . . . .            | 3 |
| MAT 131    | Applied Mathematics . . . . .          | 3 |
| COM 103    | Introduction to Public Speaking        |   |
| or COM 120 | Interpersonal Communications . . . . . | 3 |
|            | General Education electives* . . . . . | 6 |

*Total Semester Credit Hours* 70

### Recommended Courses

|         |  |   |
|---------|--|---|
| CNH 153 | Service Department Operations . . . . .    | 1 |
| EST 114 | Career and Technical Work Ethics . . . . . | 1 |