

# Heavy Equipment Repair (HER.AAS)

## Associate in Applied Science

### Engineering/Manufacturing and Industrial Technology

Auburn Hills Campus

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy-duty construction and road equipment. The technician must be knowledgeable in repair of all systems used in heavy equipment including diesel engines, fuel systems, powertrain, electronics, and hydraulics. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair. Repairs must be completed, with consideration to safety, MIOSHA, and environmental guidelines. A repair technician must be able to work with a minimum of supervision, as repairs may be made off-site. Attention to detail and a sense of responsibility are required. Students completing the major requirements are eligible to apply for a certificate in Heavy Equipment Repair.

**Full Time Program Plan Example - Click Here** (<https://www.oaklandcc.edu/program-plan/her.aas>)

| Code                                                  | Title                                              | Credit Hours |
|-------------------------------------------------------|----------------------------------------------------|--------------|
| <b>Major Requirements</b>                             |                                                    |              |
| AUT 1000                                              | Automotive Fundamentals                            | 4            |
| AUT 1800                                              | Automotive Air Conditioning & Heating Service      | 4            |
| HER 1100                                              | Service Writing and Equipment Orientation          | 6            |
| HER 1120                                              | Heavy Engine Rebuild Orientation                   | 6            |
| HER 1250                                              | Heavy Equipment Electronics Orientation            | 5            |
| HER 1300                                              | Equipment Hydraulics Orientation                   | 6            |
| HER 1350                                              | Diesel Fuel Systems Orientation                    | 4            |
| HER 1400                                              | Equipment Powertrain Orientation                   | 5            |
| WEL 1111                                              | Welding for the Non-Career Welder                  | 3            |
| <b>Required Supportive Courses</b>                    |                                                    |              |
| BUS 1100                                              | Introduction to Business                           | 4            |
| or HER 2000                                           | Heavy Equipment Cooperative Internship Orientation | 3            |
| <b>Total Credit Hours for Program-Related Courses</b> |                                                    | <b>46-47</b> |
| <b>General Education Requirements</b>                 |                                                    |              |
| Communication / English (3-credits)                   |                                                    | 3            |

Complete 3 credits from Communication/English courses listed in the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#communication-english>)

Fine Arts / Humanities (3-credits) 3

Complete 3 credits from Fine Arts/Humanities courses listed in the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#fine-arts-humanities>)

Mathematics / Science (3-credits) 3

Complete 3 credits from Mathematics/Science courses listed in the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#mathematics-science>)

Social Science (3-credits) 3

Complete 3 credits from Social Science courses listed in the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#social-science>)

Written Communication (3-credits) 3

Complete 3 credits from Written Communication courses listed in the General Education Distribution List (<http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#written-communication>)

**Total Credit Hours 61-62**

A minimum cumulative 2.00 grade point average (GPA) overall is required for graduation.