

**ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)**

The Diesel/Heavy Equipment program prepares students to enter the workforce as technicians to maintain, diagnose, and repair heavy equipment. The program focuses both on over the road trucks as well as diesel powered heavy equipment, typically used in the construction industry. Students will learn diesel engine and propulsion systems, fuel management systems, related accessory components, as well as hydraulics, welding certifications, and HVAC certifications. All students will be prepared to take ASE certification exams at the completion of the appropriate course. Integral to this program is a paid internship component, allowing students to gain valuable work experience prior to completion of their program, making them more employable.

**STUDENT LEARNING OUTCOMES – Graduates of this program will have the opportunity to:**

- Prepare for employment in the Diesel Technology Industry as a Certified Technician.
- Successfully pass the following ASE/NATEF certification exams: ASE T2, ASE T3, ASE T4, ASE T5, ASE T6, ASE T7.
- Successfully pass the AWS D1.1 mild steel horizontal welding certification.
- Successfully pass the IMACA refrigerant handling certification.
- Successfully pass the SP2 safety and pollution prevention certification.

**GENERAL EDUCATION REQUIREMENTS (25 Credits):**

|   | CR  | SEMESTER |
|---|-----|----------|
| <b>COMMUNICATIONS:</b><br>BUS 108, COM 101, 102, 215,<br>ENG 100, 101, 102, 107, 113, 114, 205,<br>JOUR 102, THTR 105   | 3-5 | _____    |
| <b>ENGLISH:</b><br>ENG 107  | 3   | _____    |
| <b>HUMAN RELATIONS:</b><br>ALS 101, ANTH 101, 112, 201, 205,<br>HIST 105, 106, 107, 150, 151, 210, 247, 260,<br>HMS 130, 135B, 265B, MGT 100B, 283,<br>PHIL 135, PSC 201, PSY 101, 102, 207, 208,<br>261, SOC | 3   | _____    |
| <b>MATHEMATICS:</b><br>MATH 116 or above (except MATH 122, 123)   | 3   | _____    |
| <b>SCIENCE:</b><br>AST, BIOL, CHEM, EGG 131, 132,<br>ENV, GEOG 103, 104, 117, GEOL,<br>HHP 123B, 124B, PHYS   | 6   | _____    |
| <b>FINE ARTS/HUMANITIES/<br/>SOCIAL SCIENCES:</b><br>AM, ANTH, ART, COM, ECON,<br>ENG 223 or above, GEOG 106 or above,<br>HIST, International Languages, Music,<br>PHIL, PSC, PSY, SOC, THTR, WMST 113        | 3   | _____    |
| <b>U.S. AND NEVADA CONSTITUTIONS:</b><br>PSC 101 or<br>HIST 101 and HIST 102 or<br>HIST 101 and HIST 217  | 4-6 | _____    |

**SPECIAL PROGRAM REQUIREMENTS (52 Credits):**

|   | CR | SEMESTER |
|---|----|----------|
| <b>AC 211</b> Transport Refrigeration                             | 2  | _____    |
| <b>DT 104</b> Diesel Equipment Service                            | 4  | _____    |
| <b>DT 115</b> Diesel/Heavy Equipment Electrical Systems           | 4  | _____    |
| <b>DT 117</b> Advanced Diesel/Heavy Equipment Electronics         | 4  | _____    |
| <b>DT 136</b> Diesel Engine Repair I                              | 4  | _____    |
| <b>DT 138</b> Diesel Engine Repair II                             | 4  | _____    |
| <b>DT 145</b> Diesel Brake Systems                                | 4  | _____    |
| <b>DT 155</b> Steering, Suspension and Directional Controls       | 4  | _____    |
| <b>DT 165</b> Diesel/Heavy Equipment Heating and Air Conditioning | 4  | _____    |
| <b>DT 205</b> Diesel/Heavy Equipment Drive Train and Axles        | 4  | _____    |
| <b>DT 295</b> Internship Co-Op I                                  | 2  | _____    |
| <b>DT 296</b> Internship Co-Op II                                 | 2  | _____    |
| <b>DT 297</b> Internship Co-Op III                                | 2  | _____    |
| <b>MT 108B</b> Fluid Power (PNE, HYD, INST)                       | 4  | _____    |
| <b>MTL 223B</b> Special Topics in Welding Technology              | 4  | _____    |

**ASSOCIATE OF APPLIED SCIENCE**

**77**  
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.