AOS DEGREE – CODE #0452
Bradley Smith, Department Chair and Program Coordinator
Email address: smithbp@alfredstate.edu

One of our most popular programs, this specialization includes 1,800 hours of practical experience and classroom training designed to prepare you to enter the dynamic field of heavy equipment maintenance and repair. You will receive a strong foundation on all types of vehicles during your first year, followed by a year of concentration on trucks, bulldozers, earthmovers, farm tractors, and other diesel-powered equipment during your senior year.

ADVANTAGES
- Our heavy equipment, truck and diesel technician program is the only program in New York and New England that is approved by the Association of Diesel Specialists (ADS). The heavy equipment, truck and diesel technician program is one of only nine national ADS TechSmart training programs.
- Students successfully completing the heavy equipment, truck and diesel technician program may return for a third year (senior year) in automotive service technician or motorsports technology and earn a second associate degree. They may be admitted to autobody repair with the department chair’s approval.

DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAM
Alfred State heavy equipment, truck and diesel technician graduates may enter directly into the technology management BBA degree program. Graduates who have credit for freshman composition, statistics, literature, history, and speech may complete the BBA program in two additional years; others may complete the BBA program in two-and-one-half years.

OCCUPATIONAL OPPORTUNITIES
- Agricultural equipment mechanic
- Service manager
- Diesel engine specialist
- Diesel fuel system specialist
- Shop foreman
- Heavy equipment mechanic
- Truck fleet mechanic
- Industrial equipment mechanic
- Marine engine service technician

EMPLOYMENT STATISTICS
Employment and continuing education rate of 97 percent – 97 percent are employed.

RELATED PROGRAMS
- Autobody Repair
- Automotive Service Technician
- Mechanical Engineering Technology
- Welding Technology

REQUIRED TOOLS/EQUIPMENT
A list of required tools, equipment, PPE, etc. for all of the programs mentioned above can be found at http://www.alfredstate.edu/tool-lists.

A tier 1 laptop computer is required for students entering this degree program. Laptop specifications are available at www.alfredstate.edu/required-laptops.

ENTRANCE REQUIREMENTS/RECOMMENDATIONS
Recommended: Algebra

TECHNICAL STANDARDS
It is essential that students in this degree program are able to participate fully and safely, with or without reasonable accommodation, in all classroom and laboratory experiences required for completion of the program. Students in this degree program should be able to:
1. Lift 50 pounds to industry standard automotive lift height
2. Effectively communicate with a person six (6) to ten (10) feet away.
3. Visually decipher small images on a monitor or digital display.
4. Distinguish sounds associated with mechanical failures.
5. Comprehend written information found in service repair resources.
6. Possess a valid motor vehicle driver’s license.
7. Function in a safe manner, not placing themselves, faculty, staff, other students, or property in jeopardy.
8. Appropriately and safely use standard laboratory equipment, materials, and instrumentation to include possession of fine motor skills and mobility.

CERTIFICATION OR LICENSURE
Students may take Automotive Service Excellence (ASE) certification exams in eight areas and the ADS TechCert test. Students are eligible for New York State inspection certification upon successful completion of their freshman year. In their senior year, students may take the test for certification in Basic Engine Theory through the Association of Diesel Specialists.

OFFICE OF ACCESSIBILITY SERVICES
Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

HEAVY EQUIPMENT, TRUCK AND DIESEL TECHNICIAN - AOS DEGREE

TYPICAL FOUR-SEMESTER PROGRAM

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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>First</td>
<td>AUTO 1224</td>
<td>Welding</td>
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<tr>
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<td>AUTO 1245</td>
<td>Trk Bsc Elec &amp; Comp Ovhr</td>
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<tr>
<td></td>
<td>AUTO 1219</td>
<td>Truck Brake, Steer &amp; Sus Sys</td>
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<tr>
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<td>AUTO 1239</td>
<td>Trk Imp, Maint, AC, Cng/Htr</td>
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<td>AUTO 2169</td>
<td>Truck Electrical, Fuel &amp; Emiss</td>
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<td>AUTO 3609</td>
<td>Heavy Duty Drive Train</td>
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<td>AUTO 3649</td>
<td>Diesel Engine Service</td>
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<td>AUTO 4669</td>
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<td>AUTO 4613</td>
<td>Heavy Duty Hydraulic Systems</td>
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<td>AUTO 4603</td>
<td>Heavy Duty Electrical Systems</td>
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CONTINUING STUDENTS
Students successfully completing the heavy equipment, truck & diesel technician program receive first priority for space if they wish a third year (senior year) in automotive service technician. They may be admitted to autobody repair with the department chair’s approval.
GRADUATION REQUIREMENTS

A student must successfully complete all courses in the prescribed four-semester program and earn a minimum cumulative grade point average of 2.0 in major courses.