



## Diesel Equipment Mechanic (31-412-1)

Technical Diploma  
**Effective 2023/2024**

*The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here.  
All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan.  
Courses in this program may be offered in a variety or combination of formats (for example: in-person, video conferencing, online, etc.).*

**HZ-D = Horizon Center/days, F=Fall, S=Spring, SU=Summer**

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	HZ-D
1	890-155	1	Gateway to Success (G2S)		F+
1	*412-111	2	Diesel Maintenance Fundamentals	Coreq: 804-135	F
1	*412-107	4	Diesel Electricity 1 <sup>6</sup>	Prereq: 412-111	F
1	*412-114	3	Diesel Heating, Cooling & Air Cond. <sup>6</sup>	Prereq: 412-111; 412-107	F
1	804-135	3	Quantitative Reasoning <sup>1,6</sup>	Prereq: 834-109	F+
2	*412-117	3	Diesel Suspension & Steering Systems <sup>6</sup>	Prereq: 412-111	S
2	801-136	3	English Composition 1 <sup>1,6</sup>	Prereq: 831-103 OR 831-107	S+
2	801-196	3	Oral/Interpersonal Communication		S+
2	*412-106	4	Diesel Brake Systems <sup>6</sup>	Prereq: 412-111; 412-117 OR 412-125	S
3	*412-112	4	Diesel Drive Trains <sup>6</sup>	Prereq: 412-111; 412-106 Coreq: 801-136	SU
3	*412-116	3	Diesel Preventative Maintenance <sup>6</sup>	Prereq: 412-111; 412-106; 412-112 OR 412-126	SU

**Minimum Program Total Credits Required: 33**

Students interested in continuing into the 10-412-1 Diesel Equipment Technology program can earn their associate degree by completing an additional 32 credits. Please see your academic advisor for details.

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation, and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.

= Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.

(\*) indicates students must achieve a combined average of 2.0 ("C") or above for these major courses to meet graduation requirements.

(+) indicates students may take these courses at any one of the three main campuses; Kenosha, Racine, Elkhorn or Online.

## **Diesel Equipment Mechanic (31-412-1)**

*Diesel Equipment Mechanic* is a one-year repair and maintenance program designed to prepare an entry level diesel technician. This program is the first year of the associate degree Diesel Equipment Technology program. Program instruction will include over the road, off road and stationary applications. Emphasis will be placed on the fundamentals and repair of diesel engines, and basic diesel vehicle systems including brakes, heating, cooling, and electrical/electronic.

### **Program Learning Outcomes**

Graduates will be able to:

1. Diagnose major systems in diesel and heavy equipment industry.
2. Repair major systems in diesel and heavy equipment industry.
3. Service major systems in diesel and heavy equipment industry.
4. Practice personal and professional work habits.
5. Document complaint, cause, and correction.

### **Essential Career Competencies**

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- Communication
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

### **Admission Requirements**

1. Students must submit an application and pay \$30 fee.
2. Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading, writing, and math placement assessments.

### **Graduation Requirements**

1. Minimum 33 credits with an average of 2.0 or above.
2. \*Average of 2.0 ("C") or above for these major courses.
3. Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

### **Notes**

1. Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.
2. Tablet computer required for this program. See an advisor for a fact sheet describing minimum requirement.
3. Work uniform is required. See an advisor for details.
4. Safety glasses are required in labs. If prescription safety glasses are required, allow a minimum of 90 days before the program start to obtain prescription and glasses.
5. A state issued Commercial Driver License (CDL) is not required for the program but highly recommended. Gateway Technical College will offer CDL training starting May 2019.
6. A credit for prior learning assessment is available for this course. For more information, please contact [cfpl@gtc.edu](mailto:cfpl@gtc.edu).

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for one year or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult My Gateway for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.