



Diesel Equipment Technology (10-412-1)

Associate of Applied Science
Effective 2018/2019



The course sequence shown on this sheet is the recommended path to completion of the program and reflects how courses are regularly scheduled. Courses will be scheduled in the terms indicated here. Courses may be taken out of sequence as long as requisites are met.

√	Course Number	Course Title	Requisites	Notes	Credits	Terms Offered
	412-111	* Diesel Maintenance Fundamentals			2	FA, SP
	412-107	* Diesel Electricity 1	Prereq: 412-111	7	4	FA, SP
	412-114	* Diesel Heating, Cooling & Air Cond.	Prereq: 412-111; 107	7	3	FA, SP
	412-117	* Diesel Suspension & Steering Systems	Prereq: 412-111	1,7	3	FA, SP
	804-107	College Mathematics	Prereq: 834-109	1,7	3	FA, SP, SU
	801-136	English Composition 1	Prereq: 831-103	7	3	FA, SP, SU
	412-106	* Diesel Brake Systems	Prereq: 412-111; 117 OR 125	7	4	SP, SU
	412-112	* Diesel Drive Trains	Prereq: 412-111; 106	7	4	SP, SU
	412-116	* Diesel Preventative Maintenance	Prereq: 412-111; 106; 112	7	3	SP, SU
	801-196	* Oral/Interpersonal Communication	Prereq: 838-105	1	3	FA, SP, SU
	412-110	* Diesel Fuel Systems	Prereq: 412-111		3	FA
	412-109	* Diesel Engine Service	Prereq: 412-111; 110	7	5	FA
	412-108	* Diesel Electricity 2	Prereq: 412-111; 107		3	FA
	809-196	Sociology, Introduction to	Prereq: 838-105	1,7	3	FA, SP, SU
	412-115	* Diesel Hydraulic Systems	Prereq: 412-111		2	SP
	412-113	* Diesel Fuel Systems - Advanced	Prereq: 412-111; 107; 110; 108		3	SP
	412-105	* Diesel Control Systems - Advanced	Prereq: 412-111; 108; 109; 112 OR 126; 113; 114		4	SP
	809-198	Psychology, Intro to	Prereq: 838-105	1,6,7	3	FA, SP, SU
Take 6 elective credits. Any associate degree course may be taken as an elective. Over for suggested electives.					6	
Minimum Program Total Credits Required					64	
AVAILABLE CONCENTRATION: CONSTRUCTION EQUIPMENT REPAIR						
Instead of these courses		Take these alternates				
412-117 Diesel Susp. & Steering Sys.	*412-125 Const. Equip. Drive/Steer. Sys.	Prereq: 412-111			3	SU
412-112 Diesel Drive Trains	*412-126 Const. Equip. Drive Train	Prereq: 412-111; 106; 125			4	SU
412-105 Diesel Control Sys. Adv.	*412-127 Construction Hydraulic Sys.	Prereq: 412-111; 108; 109; 115; 126			4	SU

Diesel Equipment Technology (10-412-1)

Diesel Equipment Technology is a two-year repair and maintenance program designed to prepare an entry level diesel technician. Program instruction will include over the road, off road and stationary applications. Emphasis will be placed on operational fundamentals and repair of diesel engines, and diesel vehicle systems including brakes, heating, and cooling systems. Technical skills will be developed in diagnosing and repair of advanced engine and system controls.

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.

Core Abilities

Gateway's nine core abilities are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will be able to:

1. Act responsibly.
2. Communicate clearly and effectively.
3. Demonstrate essential computer skills.
4. Demonstrate essential mathematical skills.
5. Develop job seeking skills.
6. Respect themselves and others as members of a diverse community.
7. Think critically and creatively.
8. Work cooperatively.
9. Value learning.

Admission Requirements

1. Students must submit an application and pay \$30 fee.
2. Students must complete reading, writing, and math skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

Graduation Requirements

1. Minimum 64 credits with an average of 2.0 or above.
2. *Average of 2.0 ("C") or above for these major courses.

For a complete list of Graduation Requirements, check the Student Handbook.

Program Offerings

	Location(s)	Starting Term(s)
Days	Horizon Center	FA
Evenings	Horizon Center	SP

Suggested Electives

412-122 Professional Practices	461-120 Small Power Equipment
412-123 Diesel Equipment Tech. Internship	801-197 Technical Reporting
442-101 Welding Basics	809-195 Economics
442-102 Introduction to Welding	443-101 Forklift Operation & Maintenance

Notes

1. A satisfactory placement test score (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 requirements.
3. Work uniforms are 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 does not offer CDL training.
6. Transfer credits in Social Science may substitute for this course. See an advisor for details.
7. A credit for prior learning assessment is available for this course. For more information, please contact cfpl@gtc.edu.

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult Web Advisor 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.

EQUAL OPPORTUNITY EMPLOYER AND EDUCATOR/EMPLEADOR Y EDUCADOR QUE OFRECE IGUALDAD DE OPORTUNIDADES