

Automotive Technology







Horizon Center for Transportation

4940 88th Ave. Kenosha, WI



Automotive Technology Technical Diploma Associate Degree

Diesel Technology
Technical Diploma
Associate Degree

Aeronautics
Associate Degree





How do I become a mechanic?

Apprenticeship	Certificate or Technical Diploma	Associate Degree
YouthApprenticeshipGain a job at an auto shop	Undercar Technician, Certificate	Automotive Technology
Learn while you are workingRegistered	Automotive Technician	Technical Skills classes
Apprenticeship Earn a	Technical Skills classes	General Education Classes



Did you know?

- The average car can have up to 30,000 parts
- Cars spend 95% of their time parked

80% of car parts can be recycled

 Each day about 165,000 cars are manufactured



Did you know?

 Our students can do repairs on your parent's car!

- Auto students can perform the following services:
 - Brakes
 - Heating & Cooling
 - Engine Cooling
 - Chassis & AccessoryElectrical
 - Alignment & Suspension

Continued:

- Minor Engine Repair
- Engine Performance & Emissions
- Manual Transmissions& Clutches
- AutomaticTransmissions

Auto Service Request



Automotive Technology

Previous Credit

There are many opportunities, both in high school and through previous college, work, and/or military experience, to earn credit at Gateway.

For more information about earning credit in high school and opportunities for credit for prior learning, please see reverse side.

Certificate

Automotive Under Car Technician

(10 Credits)

Potential Jobs:

- Lube Technician
- Alignment Technician

Median Income*: \$10.50 per hour \$21,840 annually *Based on locally reported wage data.

Students who complete this program are prepared to earn industry-recognized certifications, including:
-NC3 Snap-on Wheel
Alignment and Balancing
-NC3 Pro-Cut
-NC3 Starrett Precision
Measuring

Technical Diploma

Automotive Maintenance Technician

(30 Credits)

Potential Jobs:

- Service Technician
- Quick Service
 Technician

Median Income*: \$14.00 per hour \$29,120 annually *Based on locally reported wage data.

Students who complete this program are prepared to earn industry-recognized certifications, including:
-NC3 Snap-on Multimeter
-NC3 FCA Level 0 Certified
-NC3 Snap-on Torque
-NC3 Snap-on Battery
Starting and Charging

Associate Degree

Automotive Technology

(64 Credits)

Potential Jobs:

- Diagnostic Specialist
- Master Technician

Median Income*: \$26.00 per hour \$54,080 annually *Based on locally reported wage data. Hourly wage may vary greatly based on flat rate compensation and experience level.

Students who complete this program are prepared to earn industry-recognized certifications, including:
-NC3 Snap-on Diagnostics
-NC3 FCA Level 1 Certified

Career

Students are prepared to enter their career field at any point along the pathway and advance as they complete higher-level credentials.

Bachelor's Degree

Transfer up to 64 credits via existing articulation agreements with colleges such as:

- -Bellevue University
- -Franklin University
- -Lakeland University
- -Ottawa University
- -UW-Oshkosh
- -UW-Stout





What will you learn?

Certificate: AUTOMOTIVE UNDER CAR TECHNICIAN (61-602-1)

Credits: 11 Credits

Description: The Automotive Under Car Technician certificate will focus on

preparing students for an entry level automotive technician position in industry. Completion of this certificate will prove basic level knowledge

of the diagnosis, service and maintenance of the steering,

suspension, brakes and lubrication systems.

Related Program: Automotive Technology

Campuses Available: Horizon Center

REQUIRED COURSES

1	Semester One	Credits	Prerequisite	Corequisite
	602-130 Auto Shop Essentials	3		
	602-107 Auto Service Fundamentals	2	602-130 or 602-122	
	602-104 Brake Systems	3	602-107; 602-130 or 602-122	
	602-124 Steering and Suspension Systems	3	602-107; 602-130 or 602-122	
	Total Credits	11		



What will you learn?

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Automotive Maintenance Technician (31-404-3)

Technical Diploma
Effective 2020/2021

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.

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	*602-130	3	Auto Shop Essentials		F
1	*602-107	2	Auto Service Fundamentals4	Prereq: 602-130	F
1	*602-104	3	Brake Systems ⁴	Prereg: 602-107; 602-130	F
1	*602-124	3	Steering & Suspension Systems ⁴	Prereq: 602-107; 602-130	F
1	804-135	3	Quantitative Reasoning ¹	Prereq: 834-109	F+
2	*602-125	2	Electrical & Electronic Systems 14	Prereq: 602-107; 602-130 Coreq: 804-135	S
2	*602-127	3	Electrical & Electronic Systems 2	Prereg: 602-125	S
2	*602-196	3	Climate Control Systems ⁴	Prereq: 602-127	S
2	*602-204	3	Engine Repair 14	Prereq: 602-107; 602-130	S
2	801-136	3	English Composition 11,4	Prereq: 831-103 OR 831-107	S+
2	801-196	3	Oral/Interpersonal Communication		S+

Minimum Program Total Credits Required: 32



What will you learn?

Automotive Technology (10-602-3)

Associate of Applied Science Effective 2020/2021

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.

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	*602-130	3	Auto Shop Essentials		F
1	*602-107	2	Auto Service Fundamentals ⁵	Prereg: 602-130	F
1	*602-104	3	Brake Systems ⁵	Prereg: 602-107; 602-130	F
1	*602-124	3	Steering & Suspension Systems ⁵	Prereg: 602-107; 602-130	F
1	804-135	3	Quantitative Reasoning ¹	Prereq: 834-109	F+
2	*602-125	2	Electrical & Electronic Systems 15	Prereq: 602-107; 602-130; Coreq: 804-135	S
2	*602-127	3	Electrical & Electronic Systems 2	Prereg: 602-125	S
2	*602-196	3	Climate Control Systems ⁵	Prereg: 602-127	S
2	*602-204	3	Engine Repair 15	Prereg: 602-107; 602-130	S
2	801-136	3	English Composition 11,5	Prereq: 831-103 OR 831-107	S+
3	801-196	3	Oral/Interpersonal Communication		SU+
3	809-196	3	Sociology, Introduction to 1,4,5	Prereq: 838-105 OR 831-107	SU+
4	*602-197	3	Engine Performance 15	Prereg: 602-127; 602-204; 804-135; Coreg: 801-136	F
4	*602-129	3	Auto Scope and Scanner Diagnosis	Prereg: 602-197; 801-136	F
4	*602-128	3	Electrical & Electronic Systems 3	Prereg: 602-127	F
4	*602-149	4	Manual Drive Train & Axles	Prereg: 602-107; 602-130	F
4	809-198	3	Psychology, Introduction to 1,4,5	Prereq: 838-105 OR 831-107	F+
5	*602-195	2	Advanced Chassis Systems	Prereg: 602-104; 602-124; 602-127	S
5	*602-205	2	Engine Repair 2	Prereq: 602-204	S
5	*602-109	4	Auto Transmission/Transaxle5	Prereq: 602-127	S
5	*602-198	4	Engine Performance 25	Prereq: 602-197	S
5	*602-120 OR	2	Auto Service Simulation OR	Prereq: 602-104; 602-124; 602-128; 602-129; 602-196; 602-198; 602-205	S
	*602-131		Automotive Service Internship	Prereq: Instructor Consent	

Minimum Program Total Credits Required: 65



Interested in Getting Started Now?

NITRO-X Summer Camp

Rev up your passion for cars and mechanics at Nitro-X! Through hands-on activities and learning, you'll build and test drive nitro-methane powered cars

Dates: August 3-7, 2020

Time: 8:30-4:00pm

Cost: \$125

Register at <u>Summer Camps</u>

In High School...

- Participate in Youth Apprenticeship
- Your school may have autos classes
- Gateway classes
 - Auto Service Fundamentals
 - Auto Shop Essentials
 - Welding courses





EXPLORE!







Ready, set...learn about the some of the science behind the speed.

Directions

- During this activity, you will watch a quick overview of the aerodynamics of automobiles, especially race cars
- You will also design your own race car

Supplies

- Complete the Pre-quiz on energy
- Watch the Aerodynamics on the Racetrack and Drag videos (located towards the bottom of the page under Videos)
- Complete the <u>Design +</u>
 <u>Drive</u> video
- Complete post-quiz on energy