

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

- **Youth Apprenticeship**
 - Gain a job at an auto shop
 - Learn while you are working
- **Registered Apprenticeship**
 - Earn a technical diploma in automotive technology

Certificate or Technical Diploma

- Undercar Technician, Certificate
- Automotive Technician
- Technical Skills classes

Associate Degree

- Automotive Technology
- 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 & Accessory Electrical
 - Alignment & Suspension

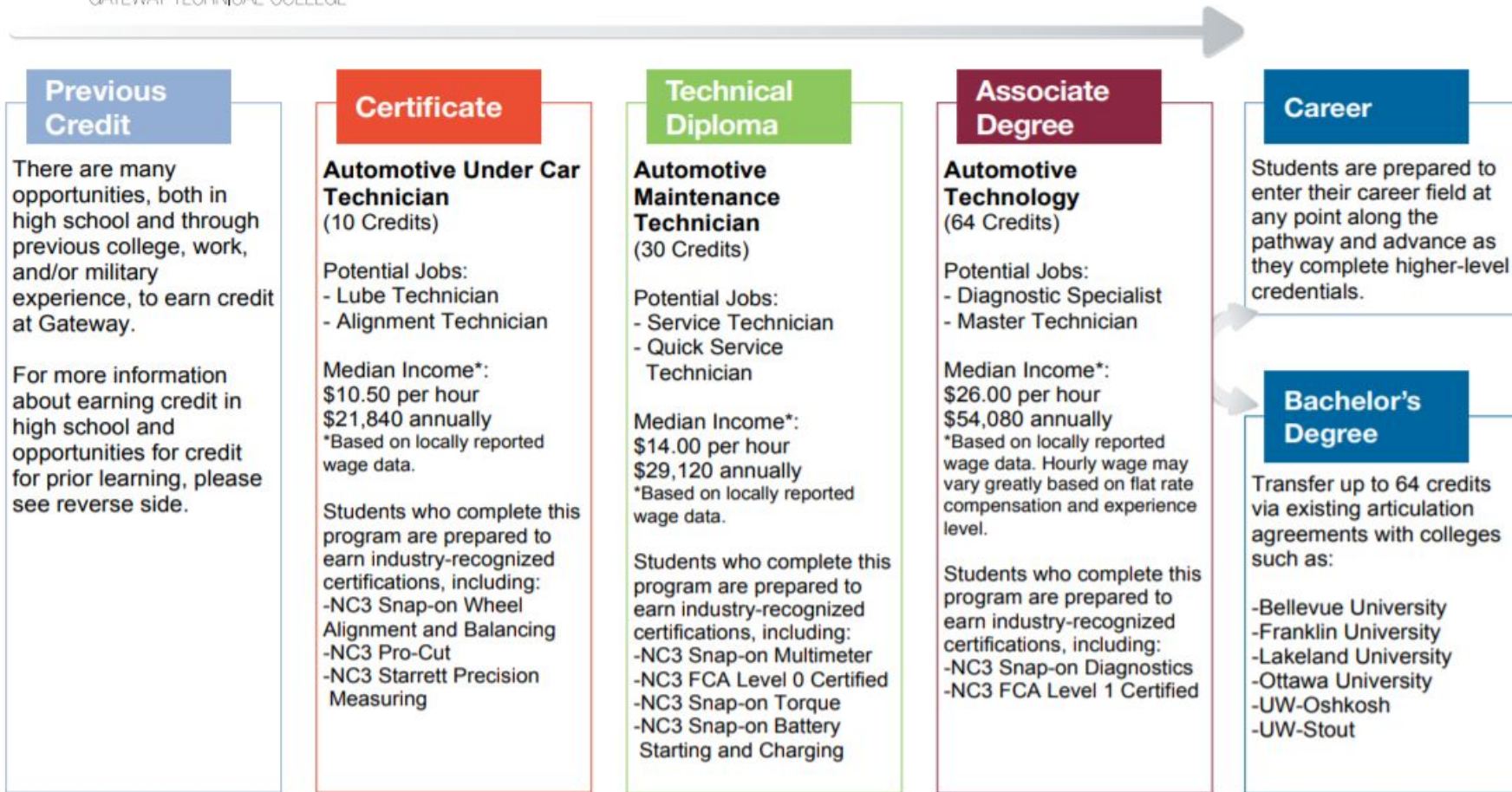
Continued:

- Minor Engine Repair
 - Engine Performance & Emissions
 - Manual Transmissions & Clutches
 - Automatic Transmissions
- Auto Service Request

CAREER PATHWAY

GATEWAY TECHNICAL COLLEGE

Automotive Technology



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

✓	<u>Semester One</u>	<u>Credits</u>	<u>Prerequisite</u>	<u>Corequisite</u>
	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?




SCHOOL OF BUSINESS AND TRANSPORTATION

Automotive Maintenance Technician (31-404-3)

Technical Diploma
Effective 2020/2021

I
 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 ⁴	Prereq: 602-130	F
1	*602-104	3	Brake Systems ⁴	Prereq: 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 1 ⁴	Prereq: 602-107; 602-130 Coreq: 804-135	S
2	*602-127	3	Electrical & Electronic Systems 2	Prereq: 602-125	S
2	*602-196	3	Climate Control Systems ⁴	Prereq: 602-127	S
2	*602-204	3	Engine Repair 1 ⁴	Prereq: 602-107; 602-130	S
2	801-136	3	English Composition 1 ^{1,4}	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	Prereq: 602-130	F
1	*602-104	3	Brake Systems ⁵	Prereq: 602-107; 602-130	F
1	*602-124	3	Steering & Suspension Systems ⁵	Prereq: 602-107; 602-130	F
1	804-135	3	Quantitative Reasoning ¹	Prereq: 834-109	F+
2	*602-125	2	Electrical & Electronic Systems 1 ⁵	Prereq: 602-107; 602-130; Coreq: 804-135	S
2	*602-127	3	Electrical & Electronic Systems 2	Prereq: 602-125	S
2	*602-196	3	Climate Control Systems ⁵	Prereq: 602-127	S
2	*602-204	3	Engine Repair 1 ⁵	Prereq: 602-107; 602-130	S
2	801-136	3	English Composition 1 ^{1,5}	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 1 ⁵	Prereq: 602-127; 602-204; 804-135; Coreq: 801-136	F
4	*602-129	3	Auto Scope and Scanner Diagnosis	Prereq: 602-197; 801-136	F
4	*602-128	3	Electrical & Electronic Systems 3	Prereq: 602-127	F
4	*602-149	4	Manual Drive Train & Axles	Prereq: 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	Prereq: 602-104; 602-124; 602-127	S
5	*602-205	2	Engine Repair 2	Prereq: 602-204	S
5	*602-109	4	Auto Transmission/Transaxle ⁵	Prereq: 602-127	S
5	*602-198	4	Engine Performance 2 ⁵	Prereq: 602-197	S
5	*602-120		Auto Service Simulation	Prereq: 602-104; 602-124; 602-128; 602-129;	
	OR	2	OR	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 [Summer Camps](#)

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 Design + Drive video
- Complete post-quiz on energy