

## Articulation Agreement

between

College of Technologies

and

**Institution:** Polaris Career Center  
**Address:** 7285 Old Oak Boulevard  
Middleburg Heights, Ohio 44130  
**Phone:** 440-891-7600

The University of Northwestern Ohio believes that many high schools and career centers/vocational schools have extensive course work in technical areas that give students a solid foundation for college study. Students who have these technical skills may be granted college credit for their proficiencies.

A partnership agreement between the university and the high schools and career centers/vocational schools is appropriate to recognize and reward those graduates who have acquired the skills for proficiency credit in specific introductory classes. The university will grant advanced placement to high school graduates who fulfill course requirements agreed to in this document.

The advantages to the graduate are many. Advance placement will cost nothing, and in most cases will reduce the total tuition, book fees, and housing costs for college programs and the time necessary for completion of the program.

Decision on advanced placement will be determined by the following University of Northwestern Ohio authorized personnel: Vice President for Academic Affairs and the College Registrar.

The total number of credits to be awarded to a student may vary and will be judged on an individual basis.

### To take advantage of this agreement, the student should:

- Contact the Admission Office at the University of Northwestern Ohio for a formal application to the university.
- Pick up the Articulation Application from the College Registrar or your high school counselor. (You can call the University for the form to be mailed to you.)
- Take the form to the high school where the form should be completed and approved by the student's instructor and counselor.
- After it is approved by the student's instructor and counselor, the school's chief administrator should sign the form and mail it to the Registrar's Office at University of Northwestern Ohio, along with documentation of NATEF certification.

- After review of the materials by University personnel, the student will be notified if advanced credit has been awarded.

## COURSES AND CREDITS FOR ADVANCED PLACEMENT

Courses & Credits	Requirements
AU126 Suspension and Steering (6 credits)	2 years of high school in an automotive or diesel training program, NATEF certified in suspension & steering with a B average in the automotive/diesel courses
AU127 Hydraulic Brake Systems (6 credits)	2 years of high school in an automotive or diesel training program NATEF certified with a B average in the automotive/diesel courses
HV101 Service & Procedures I (6 credits)	Graduate of a two-year HVAC/R program with a B average in HVAC/R courses

## CATALOG DESCRIPTIONS OF COURSES LISTED

### **AU126 SUSPENSION AND STEERING**

The fundamentals of the chassis, including basic and power steering systems, variable effort power steering systems, suspension systems both basic and computer controlled, geometric centerline alignment, thrust line alignment and total four-wheel alignment provide the focus of this course. Proper procedures in diagnosis of components along with basic frame and body measuring for correct locations are also covered. Lab work includes steering and suspension repair, tire balancing and alignment on computerized alignment equipment, and computerized wheel balancing, utilizing training aids and live vehicles.

### **AU127 HYDRAULIC BRAKE SYSTEMS**

The fundamental principles of hydraulics pertaining to the automotive and medium duty truck brake systems is presented. Students will study the theory of operation and advanced study of component principles. Students will use standard skills to diagnose and repair hydraulic systems, drum and disc brake systems, power assist units and anti-lock brake systems. Lab work includes demonstration, on-car practice to provide a working knowledge of diagnosis and repair of the hydraulic systems, drum and disc brake systems, power assist units and associated systems. Included will be coverage of wheel bearings, parking brakes and related electrical circuits.

### **Commercial Heating, Ventilation, Air-Conditioning & Refrigeration Courses:**

#### **HV101 SERVICE AND PROCEDURES I**

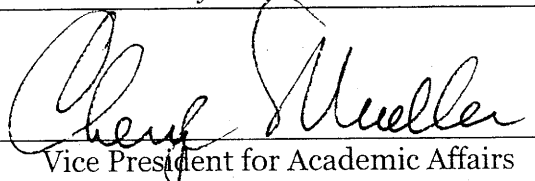
The fundamentals of refrigeration and heating and equipment operation are discussed, including recovery machines, trade math, electrical basics, customer relations, identification of basic components, soldering and brazing and use of all trade related tools. Safety awareness, customer relations and professionalism are stressed, along with employability skills. Sales principles are integrated because of the service technicians' roles in this area.

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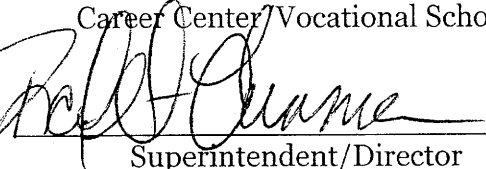
**Proficiency Exams:** Students in both the College of Business and College of Technologies may take proficiency exams in other areas. Students who hold ASE Certification will receive credit for the written portion of a test; only a "hands-on" test will need to be taken. Contact the Registrar for Business proficiency exams; the Dean of the College of Technologies for technical proficiency exams.


- \* NATEF certification must be attached to process this agreement.
- \* All Articulation Agreements will be reevaluated every five years, to assure all students are getting, and have the necessary information to have credit granted to them.
- \* All schools desiring to articulate classes with the University of Northwestern Ohio must be NATEF certified. If your institution's certification has temporarily lapsed due to NATEF's inability to evaluate in a timely fashion, please attach documentation that an evaluation will be conducted.

We, the undersigned representatives of the cooperating University and high school/vocational school, agree that a student completing vocational training in select vocational programs may be eligible for advanced placement credit. Guidelines for acceptance of that credit are covered in this document.

University of Northwestern Ohio  
 \_\_\_\_\_  
  
 Vice President for Academic Affairs

4/14/09  
 \_\_\_\_\_  
 Date

Polaris Career Center  
 Career Center/Vocational School  
 \_\_\_\_\_  
  
 Superintendent/Director

  
 \_\_\_\_\_  
 Principal

3/31/09  
 \_\_\_\_\_  
 Date

Return agreement to:  
 The University of Northwestern Ohio  
 David Henkle, Educational Relations Representative  
 1441 N. Cable Road  
 Lima, OH 45805



**NATIONAL AUTOMOTIVE TECHNICIANS EDUCATION FOUNDATION, INC.**

December 12, 2008

Mr. M. Fritz Welker  
Assistant Principal  
Polaris Career Center  
7285 Old Oak Blvd.  
Middleburg Heights, OH 44130

Dear Mr. Welker:

We have received the team evaluation results for recertification of your AYES Automobile technician-training program. The results indicate that the program meets the criteria for recertification in Brakes, Electrical Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning, and Suspension & Steering.

We commend you and your staff for maintaining your program's standards, and continuing to meet the industry's requirements. The explosion in automotive technology makes your high quality automotive training program more valuable than ever.

A recertification plate for your NATEF plaque will be mailed to you within the next four weeks. Congratulations!

Sincerely,

A handwritten signature in black ink that reads 'William A. Kersten'.

William A. Kersten  
President, NATEF

WAK/bm

cc: Mr. Dave Yorke, Automotive Tech Instructor  
Mr. Robert Koch, ETL  
Dr. Darrell Parks, NATEF Consultant

101 BLUE SEAL DRIVE, S.E., SUITE 101, LEESBURG, VA 20175

PHONE: 703-669-6650 FAX: 703-669-6125

[www.natef.org](http://www.natef.org)

**Polaris Career Center - AYES**

(Secondary)

7285 Old Oak Blvd.  
Middleburg Heights OH 44130

Dave Yorke

(440) 891-7674  
[View School Web Site](#)

**Areas of Certification:**

Brakes, Electrical Electronic  
Systems, Engine Performance,  
Engine Repair, Heating and Air  
Conditioning, Suspension &  
Steering

**Programs:**

Automobile

**Certification Expiration: 10/2013**

