



March 27, 2017

Cheboygan Area Schools  
801 West Lincoln Ave  
Cheboygan, MI 49721

To Whom It May Concern:

We have recently received the completed Articulation Agreement between Cheboygan High School and the University of Northwestern Ohio.

**Congratulations! This agreement has been officially approved.**

We have enclosed a copy for your records. If you have any questions or concerns regarding this agreement, please do not hesitate to contact my office.

Sincerely

A handwritten signature in black ink that reads "Shawna Roob". The signature is written in a cursive style. In the background, there is a faint, circular seal of the University of Northwestern Ohio, featuring a central figure and the text "UNIVERSITY OF NORTHWESTERN OHIO" and "1925".

Shawna Roob  
Educations Relations Representative

# UNOH UNIVERSITY OF NORTHWESTERN OHIO

## Articulation Agreement

between

College of Applied Technologies  
and

**Institution:** Cheboygan Area Schools

**Address:** 801 West Lincoln Avenue  
Cheboygan, MI 49721

**Phone:** 231-627-7191

The University of Northwestern Ohio believes that many high schools and career centers 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 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 advanced placement:

- There will be no expense to the student
- It will reduce the total tuition expense, book fees, and housing costs for your college program
- It will reduce the time necessary for completion of the program.

The decision on advanced placement will be determined by the following University of Northwestern Ohio authorized personnel: Provost / 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 decided on an individual basis. Awarded credit will be reflected on the students' transcript after completion of the first term.

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

- Contact the Admission Office at the University of Northwestern Ohio for a formal admissions application to the university (419)998-3120.
- Pick up the Articulation Application from myself or your high school counselor. You can also call the University to have the application form mailed or e-mailed to you at (419) 998-8889.
- The form should be taken to the high school where it should be completed and approved by the student's instructor and administrator. The student will also be required to sign the form stating the he or she has had the necessary training and has met the attached learning outcomes.

University of Northwestern Ohio, 1441 N. Cable Rd., Lima, OH 45805  
Office Phone: 419-998-8889 Fax: 419-998-3139

- After it is approved by the student's instructor and counselor, and signed by the student, the school's chief administrator should sign the form and mail it to the Shawna Roob at the University of Northwestern Ohio, along with documentation of NATEF accreditation found on the web at [natef.org](http://natef.org).

After the materials are reviewed by University personnel, the student will be notified if advanced credit has been awarded. Awarded credit will be reflected on the students' transcript after completion of the first term.

### **COURSES AND CREDITS FOR ADVANCED PLACEMENT**

#### **AU126 Suspension and Steering (6 credits)**

- Student must have 2 years of high school in an automotive or diesel training program, with a grade of "B" or higher each year, and the school must have NATEF, AST or higher accreditation.
- Schools with NATEF, MLR level of accreditation or schools that are not NATEF accredited, will have the opportunity to articulate with UNOH if the attached list of learning outcomes for AU 126, Steering and Suspension are met.

#### **AU127 Hydraulic Brake Systems (6 credits)**

- Student must have 2 years of high school in an automotive or diesel training program, with a grade of "B" or higher each year, and the school must have NATEF, AST or higher accreditation.
- Schools with NATEF, MLR level of accreditation or schools that are not NATEF accredited, will have the opportunity to articulate with UNOH if the attached lists of learning outcomes for AU 127, Hydraulic Brake Systems are met.

### **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 covered. Also covered is the diagnosis of vehicle vibrations and tire pressure monitor systems. 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 are 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, related electrical circuits and use of on-car brake lathes.

- \* NATEF, AST or higher accredited programs must attach a copy of their accreditation to process this agreement. NATEF Maintenance & Light Repair and non-NATEF programs see the next page.
- \* All Articulation Agreements will be revaluated 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, AST or higher accredited, or meet the learning outcomes @ for each class that articulation is desired. If your institution's accreditation has temporarily lapsed due to NATEF's inability to evaluate in a timely fashion, please attach documentation that an evaluation will be conducted.
- \* If an educational deficiency pattern is detected with a specific high school or career center, said school will have the opportunity to work with UNOH to remedy the concern.

@ [www.unoh.edu/files/admissions/articulation/cot-articulation-agreement.pdf](http://www.unoh.edu/files/admissions/articulation/cot-articulation-agreement.pdf)

NATEF Maintenance & Light Repair and non-NATEF programs, initial the learning outcomes your program meets:

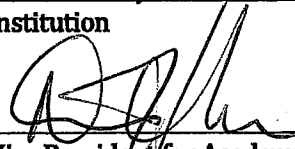
Automotive:

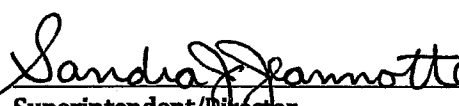
AU126 Suspension & Steering       AU127 Hydraulic Brake Systems

Diesel:

AU126 Suspension & Steering       AU127 Hydraulic Brake Systems

We, the undersigned representatives of the cooperating university and high school/career centers, agree that a student completing career and technical education training in select automotive or diesel technology may be eligible for advanced placement credit. Guidelines for acceptance of the credit are covered in this document.

University of Northwestern Ohio  
 Institution  
  
 Vice President for Academic Affairs Provost  
3/24/17  
 Date

Cheboygan Area Schools  
 Institution  
  
 Superintendent/Director  
3-15-17  
 Date

Return agreement to:

The University of Northwestern Ohio  
 Attention: Admissions  
 Shawna Roob, Educational Relations Representative  
 1441 N. Cable Rd., Lima, OH 45805

University of Northwestern Ohio, 1441 N. Cable Rd., Lima, OH 45805  
 Office Phone: 419-998-8889 Fax: 419-998-3139

# Cheboygan Area High School

## Cheboygan Area High School

Secondary

[View School's Web Site](#)

801 W. Lincoln Ave.  
Cheboygan, MI 49721  
(231) 627-7191

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## Auto Series Programs

Cheboygan Area High School

**Program Contact:** James Lafrinere, (231) 627-7191

**Certification Expiration:** June, 2018

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Brakes

Electrical/Electronic Systems

Suspension & Steering