

# HIGH SCHOOL 2019-2020

ALGOMA  
HIGH  
SCHOOL

## COURSE DESCRIPTION HANDBOOK



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*It is the policy of the School District of Algoma that no person, on the basis of sex, race, color, religion, national origin (including LEP), ancestry, creed, pregnancy, marital status, parental status, sexual orientation or physical disability, mental disability, emotional disability or learning disability/handicap or homeless status, may be denied admission to any school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program.*

*"In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability. To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW. Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TTY). USDA is an equal opportunity provider and employer."*

## Credits

A credit shall consist of the successful completion of two semesters of coursework. Fractional credit shall also be given for courses not meeting for a full year.

### A. Graduation Credits

- 1) 24 credits

### B. Course Credits

- 1) 1 semester course = 0.5 credit
- 2) 2 semester courses = 1.0 credit

## Transfer Students

Credit for transfer students will be evaluated by the High School Principal/High School Counselor and treated in the following manner:

- Transfer student from within the State of Wisconsin shall meet graduation requirements established by the State of Wisconsin Department of Public Instruction and the Board of Education of the School District of Algoma.
- Transfer students from outside of the State or private schools shall not be denied the opportunity to graduate from high school in the normal four year period because of noncompliance with the above, provided they have successfully completed their course work to the date of transfer and were on schedule (credit-wise) to graduate in the high school previously attended and continue to maintain satisfactory performance while enrolled in the Algoma High School. The principal will evaluate their record and make allowances according to the year in school at the time of transfer to Algoma High School. Where possible, attempts will be made to complete deficiencies.
- Transfer students from a home-based private educational program shall meet graduation requirements established by the State of Wisconsin Department of Public Instruction and the Board of Education of the School District of Algoma, and successfully complete the final two semesters in full-time study at Algoma High School.

## Graduation

- No member of the graduating class shall take part in the commencement ceremony without having met the requirements for graduation, nor shall unsigned diplomas be issued.
- Normally four (4) full years of attendance will be required; however, under special circumstances, the principal may adjust the requirements when it is in the best interest of the student.
- **Early graduation requests must apply in writing and complete the early graduation form by September 1.**

## Class Load - Dropping Classes

The only time a student may make a schedule change to the original schedule is **prior to the beginning of classes for that semester. Students have the first 3 days of the semester to make class drops or additions. Year- long classes may NOT be dropped at semester, except for special circumstances with teacher approval.**

## Credit Recovery

Students lacking credits for graduation should see the school counselor as soon as they become aware of the fact. Supplemental credits for graduation can be earned in a variety of ways.

## ALGOMA HIGH SCHOOL GRADUATION REQUIREMENTS

<b>Subject</b>	<ul style="list-style-type: none"> <li>· 24 Total Credits</li> <li>· Successful completion of the following subject and credit requirements</li> </ul>
<b>English</b>	<b>4 Credits including:</b> <ul style="list-style-type: none"> <li>○ English I (1 credit)</li> <li>○ English II(1 credit)</li> <li>○ English III (1 credit)</li> <li>○ Elective(s) (1 credit)</li> </ul>
<b>Social Studies</b>	<b>3.5 Credits including:</b> <ul style="list-style-type: none"> <li>○ Social Studies Seminar (1.0 credit)</li> <li>○ US History (1.0 credit)</li> <li>○ Elective(s) (1.5 credits)</li> </ul>
<b>Science</b>	<b>3.0 Credits including:</b> <ul style="list-style-type: none"> <li>○ Biology 9/Physical Science 9 (1.0 credit)</li> <li>○ Biology 10/Physical Science 10 (1.0 credit)</li> <li>○ Elective(s) (1.0 credit)</li> </ul>
<b>Math</b>	<b>3.0 Credits</b> <ul style="list-style-type: none"> <li>○ Algebra I</li> <li>○ Geometry</li> <li>○ Algebra II</li> </ul>
<b>Physical Education</b>	<b>1.5 Credits including:</b> <ul style="list-style-type: none"> <li>○ Physical Education 9 or Personal Health and Aerobic Fitness (.5 credit)</li> <li>○ 2 semester electives in P.E.</li> </ul>
<b>Health</b>	<b>.5 Credits including:</b> <ul style="list-style-type: none"> <li>○ Health Education</li> </ul>
<b>STEAM/CTE</b>	<b>1.5 Credits including:</b> <ul style="list-style-type: none"> <li>○ Electives in Technology and Engineering Education, Business Education, Visual Arts, and/or Family and Consumer Science (1.5 credits)</li> </ul>
<b>Business Education</b>	<b>.5 Credits</b> <ul style="list-style-type: none"> <li>○ Employability Skills/Personal Finance (ES/PF)</li> </ul>
<b>Electives</b>	<b>6.5 Credits</b>
<b>TOTAL CREDITS</b>	<b>24 Credits</b>

# COLLEGE-BOUND ATHLETE

## NCAA Initial Eligibility Standards

### *Core Courses*

#### · **DIVISION I & II**

**Students entering any NCAA Division I or II college/university are required to successfully complete the following 16 core-courses:**

4 years of English.

**3 years of mathematics (Algebra I or higher).**

2 years of natural/physical science (1 year of lab if offered by high school).

1 year of additional English, mathematics or natural/physical science.

2 years of social science.

4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

**PLEASE NOTE:** Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses

### *Test Scores*

· **Division I** has a sliding scale for test score and grade-point average. The sliding scale for those requirements can be found on the NCAA website

· **Division II** has a minimum SAT score requirement of 820 or an ACT sum score of 68.

· The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.

· The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, Mathematics, Reading and Science.

· All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

### *Grade-Point Average*

· Only core courses are used in the calculation of the grade-point average.

· **Be sure** to look at your Algoma High School's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is

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

· **Division I** grade-point-average requirements are listed on the sliding scale (see website)

· **The Division II** grade-point-average requirement is a minimum of 2.000.

### *Contact Information:*

**For More information regarding the rules, visit either NCAA.org (click on "Academics and Athletes" and then "Eligibility and Recruiting" or the Eligibility link at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net). Contact the Eligibility Center staff at 1-877-262-1492 if there are specific questions regarding NCAA initial eligibility**

## COLLEGE CREDIT IN HIGH SCHOOL

Students at Algoma High School have many wonderful and unique opportunities to leave with not only the knowledge to be successful post-high school, but also with college credit in their back pocket! Algoma High School offers both Advanced Standing credits as well as Transcribed credits.

*Advanced Standing Courses: Courses taught by high school teachers using high school curriculum determined to be a close match to an NWTC course. A student must earn a "B" or better to receive advanced standing. Advanced standing courses may earn a student the opportunity to skip an introductory level course in their program and advance to the next level. Advanced Standing agreements are transferrable to all schools within the Technical College System.*

*Transcribed Credit Courses: Courses taught by high school teachers with Wisconsin Technical College System certification. NWTC curriculum and assessment methods are used. Student grades are posted to an official NWTC transcript. The grade a student receives in a transcribed course becomes part of the student's official college record. Transcribed credit agreements are transferable to other Wisconsin technical colleges and may transfer to four-year universities. Students must be at Junior or Senior level to receive Transcribed Credit through NWTC unless otherwise noted below.*

### Advanced Standing Courses

- Intro to Healthcare Careers

### Transcribed Credits Courses:

- English Composition I\*\*
- Oral and Interpersonal Communication \*\*
- General Chemistry\*\*
- Basic Anatomy\*\*
- Intro to Psychology\*\*
- Intro to Sociology\*\*
- Math 2-Trades
- College Technical Mathematics 1A
- Intermediate Algebra w/Applications\*\*
- ECE: Foundations of Early Childhood Education
- PARA: Child and Adolescent Development
- Micro: Word, Powerpoint & Excel - Intro (credit available for grades 9-12)
- Organizing Your Small Business
- Accounting Quickbooks
- Excel-Part 2
- Intro to G-Code and CAM 1
- Intro to CNC Milling Operations
- Intro to CNC Turning Operations
- Blueprint Reading/Sketching-Machine 1
- Cutting Tool Technology
- Intro-Machine Tool

*\*\*Courses that are part of the General Transfer Certificate at NWTC with UW-Green Bay and/or UW-Oshkosh. These courses have been determined to meet UWGB and UW-Oshkosh General Degree Requirements. Many other UW-System universities also acknowledge these credits as well. The admissions department of the individual schools will determine how credit will be granted.*

General Transfer Certificate at NWTC with UW-Green Bay & UW-Oshkosh: The General Studies Transfer Certificate - UW Green Bay/UW-Oshkosh includes a 32-33 credit core of courses designed to meet specific general education requirements at UWGB/UW-O. These courses will allow students who have a 2.5 overall Grade Point Average to qualify for sophomore status at UWGB/UW-O. Additional admission requirements may apply.

## **COOPERATIVE ACADEMIC PARTNERSHIP PROGRAM (CAPP)**

CAPP is a UW Oshkosh initiative and collaboration with participating high schools to provide academically capable students an opportunity to earn college credit while still in high school. It is a concurrent enrollment program, meaning courses are taught for the most part during the regular school day, by certified high school teachers who hold adjunct lecturer status with UW Oshkosh. You receive both high school and college credit for your work, thereby decreasing your time to earn a college degree. There is a charge from the university for these courses.

### **Courses available:**

- Intermediate Structure and Expression II (Spanish IV) (*Spanish 204*)
- Pre-calculus (*Math 108*)
- Calculus I (*Math 171*)
- Statistics (*Math 109*)
- Personal Finance (*Business 231*)

## **COURSES TAKEN IN MIDDLE SCHOOL FOR HIGH SCHOOL CREDIT**

**2013 ACT 138:** *Allowing Credit Earned in Grade 7 or 8 to Count as High School Credit If Certain Conditions Are Met*

*Under Act 138, if three conditions are met, a school board may count a credit that a pupil earns in grade 7 or 8 toward the 15 state graduation credit requirements or the 8.5 additional credits that the state superintendent encourages school boards to require from any combination of vocational education, foreign languages, fine arts, and other courses.*

*First, the pupil's performance on a state examination or similar examination approved by the school board must demonstrate that the pupil is academically prepared for coursework that is offered in the high school grades.*

*Second, the credit must be earned in a course that is taught by a teacher who is licensed to teach the subject in the high school grades.*

*Third, the credit must be earned in a course that is taught using a curriculum and assessments that are equivalent to the curriculum and assessments used to teach the subject in the high school grades.*

(adapted from information on the DPI website - [http://cal.dpi.wi.gov/cal\\_8gr\\_algebra\\_hsgrad](http://cal.dpi.wi.gov/cal_8gr_algebra_hsgrad))

## ALGOMA MIDDLE SCHOOL IMPORTANT SCHEDULING INFORMATION

- All middle school students will be scheduled for their core courses: Language Arts, Math, Science and Social Studies.
- Students who will need Math Essentials and/or MS Academic Learning Lab and will be placed by school staff in those classes will have a conference with their current academic teacher(s) regarding this need PRIOR to scheduling night. Math Essentials and Academic Learning Lab are interventions put into place to ensure student success. If you have individual questions about either or would like more information, please contact the MS/HS office.
  
- **COURSES REQUIRED FOR ALL 7th GRADERS:**
  - English/Lang Arts 7
  - Math 7
  - Social Studies 7
  - Science 7
  - Preparing for Your Future/PE 7 (EOD for 1 Semester)
  - Preparing for Life/PE 7 (EOD for 1 Semester)
  - Each 7th grade student will have 2 class periods a semester to take elective courses of their choice.
  
- **COURSES REQUIRED FOR ALL 8th GRADERS:**
  - English/Lang Arts 8
  - Math 8
  - Social Studies 8
  - Science 8
  - Preparing for Your Future/PE 8 (EOD for 1 Semester)
  - Preparing for Life/PE 8 (EOD for 1 Semester)
  - Each 8th grade student will have 2 class periods a semester to take elective courses of their choice.



# COURSE OFFERINGS BY DEPARTMENTS

## ENGLISH

### ENGLISH I

2 semesters 1 credit Grades: 8 or 9

**Prerequisite: None - Requirement for graduation**

Based upon Wisconsin's Common Core Standards, students will develop their skills in reading, writing, speaking, listening, language, and research. A combination of fiction and informational texts will be explored to develop comprehension and analysis. Opportunities to create and revise writing pieces will provide students with an individualized approach to learning. In addition, collaborative discussions and presentations will develop real-world communication skills.

### ENGLISH II

2 semesters 1 credit Grades: 9 or 10

**Prerequisite: Successful completion of English I- Requirement for graduation**

In English II, students will continue to advance the skills established in English I, based upon the Wisconsin Common Core Standards.

### ENGLISH III

2 semesters 1 credit Grades: 10 or 11

**Prerequisite: Successful completion of English II- Requirement for graduation**

In English III, students will continue to advance the skills established in English II, based upon the Wisconsin Common Core Standards.

### ENGLISH IV \*\*\*NEW\*\*\*

1 semester .5 credit Grades: 11 or 12

In English IV, students explore and research prospective careers and post-secondary options and share these experiences through presentations as well as oral and written communication.

### ENGLISH COMPOSITION I (NWTC)

1 semester .5 credit Grades: 11-12

**Prerequisite: Successful completion of English I, II, and III**

Students will develop knowledge and skills in planning, organizing, writing, and editing. Students will also analyze audience and purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills. Students will have the opportunity to earn 3 transcribed credits through NWTC. This course is also part of the General Transfer Certificate at NWTC with UWGB and UW-O.

## **ORAL/INTERPERSONAL COMMUNICATION (NWTC)**

1 semester .5 credit Grades: 11-12

**Prerequisite: Successful completion of Eng I and II**

**(Students may take in conjunction with Eng III, but not in place of Eng III)**

Students will explore the communication process, perception and self-concept, language, listening, and nonverbal communication. Students will examine interpersonal relationships, communication in groups and public communication; They will prepare and deliver oral presentations. Students will have the opportunity to earn 3 transcribed credits through NWTC. This course is also part of the General Transfer Certificate at NWTC with UWGB and UW-O.

## **COLLEGE WRITING & COMMUNICATION (NCAA Approved)**

1 semester .5 credit Grades: 11-12

**Prerequisite: Successful completion of English I, II, and III**

**Teacher approval required.**

Students will develop their critical thinking, analysis, and synthesis skills through various means of communication. Papers commonly assigned at the college level will be explored. This course will review past writing practices as well as teach students how to break writing rules on purpose. An emphasis will be placed on research-based communication with a review on how to find and use highly credible sources and properly cite them using MLA and APA formatting. Students will further their verbal communication skills through discussions, presentations, and interviews. The intent of this rigorous course is to help students feel prepared for writing and communicating at the college level and is recommended for 4 year college bound students.

## **SOCIAL STUDIES/SOCIAL SCIENCES**

### **SOCIAL STUDIES SEMINAR (NCAA Approved)**

2 semesters 1 credit Grade: 9

**Prerequisite: None - Requirement for graduation**

At an introductory level, students will study three core social studies disciplines (Political Science, Geography and Economics) to prepare them for the social studies courses that are offered in high school. During the first semester students will learn about different types of government, foundations of the US government (including the Federalist papers, Declaration of Independence, Articles of Confederation and Constitution), political elections, and the workings of Federal, State and local governments. The second semester will cover basic principles of economics and selected world geography featuring human/environmental problems.

### **US HISTORY (NCAA Approved)**

2 semesters 1 credit Grade: 10

**Prerequisite: Successful completion of Social Studies Seminar - Requirement for graduation**

“Discovery” to the modern day - The course will examine the United States from a historical perspective from the arrival of the first humans through the beginning of the 21st century. This course replaces the US History I and II courses.

### **CONTEMPORARY ISSUES (NCAA Approved)**

1 semester .5 credit Grades: 10-12

**Prerequisite: Successful completion of Social Studies Seminar**

This is a current events course. Other than taking a critical look at the events of the day the students will improve their media literacy as well as other social studies skills. There will be several mini units that will be covered throughout the semester and they are as follows: Media, Politics, Events of the 90s and Beyond, Freedom vs. Security, American Foreign Policy and Fake News & the Conspiracy Theory.

### **BASIC ECONOMICS**

1 Semester .5 Credit Grades: 10-12

This course is designed to provide students with basic knowledge of economic concepts and theories. Topics include but are not limited to: Economic Systems, Supply and Demand, Unemployment, Financial Markets, Economic Instability, Federal Reserve & Monetary Policy, Banking, and International Trade. Students will learn about both Micro and Macroeconomics and will be expected to participate in discussions, activities, projects, and presentations.

### **INTRO TO PSYCHOLOGY (NWTC - NCAA Approved)**

1 semester .5 credit Grades: 11-12

**Prerequisite: Junior Status**

This course is designed to introduce students to the origins of psychology and to modern changes and advances in the field. It provides students with a basic knowledge of the biological aspects of psychology as well as the different schools of thought that dominate the field. The course also emphasizes new research and presents ways in which psychology applies to the needs and concerns of high school students. The class examines the theoretical foundations of human behavior such as sensation and perception, motivation, emotions, learning, personality, psychological disorders, therapy, stress, and human diversity in personal, social and vocational settings. Students will have the opportunity to earn 3 transcribed NWTC credits. This course is part of the Social & Human Services Certificate at NWTC AND/OR the General Transfer Certificate at NWTC with UWGB and UW-O.

## **INTRO TO SOCIOLOGY (NWTC - *NCAA Approved*)**

1 semester .5 credit Grades: 11-12

### **Prerequisite: Junior Status**

Designed as an introductory course to the field of Sociology, this class gives students a more scientific understanding of themselves and the groups to which they belong. Topics covered include the nature and variety of groups; inequality, race and ethnicity; family, population, social integration and change; collective behavior; politics, economics, religion, education, criminal justice and the effects of technology. Students will have the opportunity to earn 3 transcribed NWTC credits. This course is part of the Social & Human Services Certificate at NWTC AND/OR the General Transfer Certificate at NWTC with UWGB and UW-O.

## **INTRODUCTION TO GENEALOGY**

1 semester .5 credit Grades 11 -12

Have you ever wondered about your own ancestry? Do you want to learn your family's history, but don't know where to start? In Introduction to Genealogy you will learn the basic language of family history, the best sources for information, and how to organize and preserve your research. Topics will include records-based research, preserving oral histories, cemeteries, adoption and blended families, and DNA genealogy kits.

## **AP US HISTORY (*NCAA Approved*)**

2 semesters 1 credit Grades: 11-12

### **Prerequisite: Approval from Instructor, A or high B in US History preferred**

AP US History is designed to be the equivalent of a two-semester introductory college or university U.S. History course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. Students should take the course if they plan to take the AP exam for college credit; students will have to score a 3 or higher on the exam to qualify for college credit.

## **FEATURED TOPICS IN HISTORY: WORLD WAR II**

1 semester .5 credit Grades: 11-12

### **Prerequisite: Successful completion of US History**

This course will give students a more in-depth view of World War II. Students will employ a variety of historical research methods to increase their knowledge and understanding of the war, its causes, and how it changed the world. Instruction will be a mixture of lecture, independent study, and project-based learning.

## **FEATURED TOPICS IN HISTORY: THE ROMANS**

1 semester .5 credit Grades: 11-12

### **Prerequisite: Successful completion of US History**

This course will explore the vast history of the Roman Empire from its humble beginnings to its eventual collapse. Students will employ a variety of historical research methods to increase their understanding of the Roman Empire, its rise and fall, and its lasting contributions to Western culture. Instruction will be a mixture of lecture, independent study, and project-based learning.

## **SCIENCE**

### **BOTANY**

1 semester .5 credit Grades: 8-12 Spring Semester

### **Prerequisite: None (8th grade requires consent of Ms. Lemberger)**

This course is an in-depth study of plant anatomy (structure), physiology (function), and horticulture (plant cultivation). Students will gain hands-on experience with plant propagation, hydroponics and aquaponics.

### **SOIL AND WATER (NCAA Approved)**

1 semester .5 credit Grades: 9-12 Fall Semester

### **Prerequisite: None**

This course will cover water and soil quality as well as address ecological concerns about soil and water management in Northeastern Wisconsin. Chemical principles relating to soil and water composition and analysis will be emphasized.

### **ENVIRONMENTAL SCIENCE SURVEY (NCAA Approved)**

1 semester .5 credit Grades: 9-12 Fall semester

This course is designed to introduce the student to the fields of environmental science and natural resources. Topics include environmental history, climate change and global warming, air and water pollution, energy, land management and current events.

### **GEOLOGY \*\*\*NEW\*\*\***

1 semester .5 credit Grades 9-12

This course acquaints students with basic scientific principles that apply to the earth and our natural environment. Plate tectonics, the rock cycle, taxonomy of rocks and minerals, and earthquakes will be covered in depth. Emphasis is placed on current and historical geologic processes of North America with particular emphasis on the Rocky Mountain States. Laboratory work includes exercises with maps, rock structures, minerals, fossils, and energy resources. New discoveries and environmental issues are discussed. Students are expected to have enrolled in Physical Science prior to taking this course.

**PHYSICAL SCIENCE 9 (NCAA Approved)**

1 semester .5 credit Grades: 9-10

**Prerequisite: None - Requirement for graduation**

This course presents basic information about the Physical, Earth, and Life Sciences with an emphasis on Chemistry. Topics will include classification of matter, patterns in matter, changes in matter, measurements, the structure of atoms, chemical compounds, chemical reactions, and more. Class demonstrations, labs and activities will become the basis for demonstrating important concepts.

**BIOLOGY 9 (NCAA Approved)**

1 semester .5 credit Grades: 9-10

**Prerequisite: None - Requirement for graduation**

Any student planning to attend college should consider this as an essential class. Students who complete the course will understand the basics of the biological world, acquire the skills necessary to understand the workings of their own bodies and understand the relationships between man and other organisms in the world. Units include: science skills, scientific method, graphing and organizing data, ecological principles, cell structures and functions, photosynthesis and cell respiration, genetics, microorganisms and human health.

**PHYSICAL SCIENCE 10 (NCAA Approved)**

1 semester .5 credit Grades: 9-10

**Prerequisite: None - Requirement for graduation**

This course presents basic information about the Physical, Earth and Life Sciences with an emphasis on Physics. Topics will include motion, forces, gravity, waves, energy, heat, and temperature. Class demonstrations, labs and activities will become the basis for demonstrating important concepts.

**BIOLOGY 10 (NCAA Approved)**

1 semester .5 credit Grades: 9-10

**Prerequisite: None - Requirement for graduation**

Any student planning to attend college should consider this as an essential class. Students who complete the course will understand the basics of the biological world, acquire the skills necessary to understand the workings of their own bodies and understand the relationships between man and other organisms in the world. Units include: evolution/classification, invertebrate and chordate (dissections) structures and functions including animal behavior, matter and chemical reactions/organic compounds, human body systems and functions and plant structures and functions.

**GENERAL CHEMISTRY (NWTC - NCAA Approved)**

2 semesters 1 credit Grades: 11-12

**Prerequisite: Successful completion of Physical Science 9 & 10, Biology 9 & 10, and Algebra I**

This course covers chemistry fundamentals. Topics include: metric system, problem solving, periodic relationships, nomenclature, chemical reactions, chemical equilibrium, properties of water, acids, bases and salts and gas laws. Students will have the opportunity to earn 4 transcribed NWTC credits. This course is part of the General Transfer Certificate at NWTC with UWGB and UWO when taken at the junior or senior level.

**PHYSICS (NCAA Approved)**

2 semesters 1 credit Grades: 11-12

**Prerequisite: Successful completion of Physical Science 9 & 10, Biology 9 & 10, Algebra I, and Geometry. Algebra II recommended**

Physics deals with the discovery and investigation of the basic laws of nature. Mathematical equations will be used as models to help understand physical laws and phenomena. Topics include the in depth laboratory and classroom study of motion, forces, momentum, energy, heat, sound, light, waves, electricity and magnetism.

**WISCONSIN FORESTRY AND WILDLIFE (NCAA Approved)**

First Semester only .5 credit Grades: 9-12

The course is designed to cover topics concerning wildlife and their habitat. Topics include resource management and the importance of protecting our natural resources, common flora/fauna of Wisconsin, Wisconsin environmental history, invasive species impacts on Wisconsin ecosystems, and land description principles with compass/GPS use.

**BASIC ANATOMY (NWTC)**

1 semester .5 credit Grades: 11-12

**Prerequisite: Biology 9 & 10 or Consent of Instructor**

This course examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. Students will have the opportunity to earn 3 transcribed NWTC credits. This course is part of the General Transfer Certificate at NWTC with UWGB and UW-O when taken at the junior or senior level.

**GENETICS (NCAA Approved)**

1 semester 0.5 credit Grades: 11-12

**Prerequisite: Biology 9 & 10 or Consent of Instructor**

This course is designed to teach the wide variety of the concepts of human genetics. The topics will include DNA structure, protein synthesis, enzyme structures and functions, genetic principles, and many of the current issues our world is facing today such as cloning, gene therapy and transgenic food items.

## **AP ENVIRONMENTAL SCIENCE (NCAA Approved)**

2 semesters 1 credit

Grades: 11-12

**Prerequisite: Biology 9/10, Environmental Science Survey, or Consent of Instructor**

This is a course that provides students with the scientific principles, concepts and methodologies required to understand the interrelationships in the natural world, to identify and analyze environmental problems both material and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them.

# **MATHEMATICS**

## **MS MATH ESSENTIALS**

2 semester Meets EOD Grades: 7 or 8

This course will utilize small group and individual instruction to help students with fundamental math concepts. This course will be assigned by Guidance/Middle School advisory group.

## **ALGEBRA IA**

2 semesters 1 credit Grade: 9

**Prerequisite: Teacher approval required**

This class will develop strong algebraic reasoning skills while focusing on equations, inequalities, and functions. This class will emphasize in-class work and practice, while limiting the amount of work expected outside of class. A deeper understanding of the material would be expected as more time will be devoted to each skill taught.

## **ALGEBRA IB**

2 semesters 1 credit Grade: 10

**Prerequisite: Teacher approval required**

This class will develop strong Algebraic Reasoning Skills by diving into a deeper understanding of functions, polynomials, and probability and statistics. This class will emphasize in-class work and practice, while limiting the amount of work expected outside of class. A deeper understanding of the material would be expected as more time will be devoted to each skill taught.

## **ALGEBRA I (NCAA Approved)**

2 semesters 1 credit Grades: 8 or 9

This course will go through the basic ideas of algebra. Topics to include but not limited to linear equations and functions, statistics and proportional reasoning, inequalities and absolute value, system of equations, exponents and exponential functions, quadratic functions, probability, and polynomials.



### **GEOMETRY (NCAA Approved)**

2 semesters    1 credit            Grades: 9 or 10

**Prerequisite: Algebra I or teacher recommendation. - Graduation Requirement**

This course will go through the ideas of plane and coordinate geometry. Topics include; perimeter, area, surface area, volume, perspective drawings, the Pythagorean Theorem, angle properties, symmetry, isometric transformations, coordinate geometry, size transformations, trig ratios, proofs using inductive and deductive reasoning, supplementary and vertical angles, parallel lines and transversals, triangle congruence postulates, similar figures, and circles using chords, arcs, and secants.

### **ALGEBRA II (NCAA Approved)**

2 semesters    1 credit            Grades: 10 or 11

**Prerequisite: Geometry or teacher recommendation if taking with Geometry - Graduation Requirement**

This course is a continuation of Algebra I, but is more detailed oriented. Topics to include but not limited to data and linear representations, numbers and functions, systems of equations, matrices, quadratic functions, exponential and logarithmic functions, polynomial functions, radical and rational functions, probability, statistics, trigonometric functions, conic sections, series and patterns.

### **MATH 2 -TRADES (NWTC)**

1 semester                    .5 credit            Grades: 11-12            Spring Semester

**Prerequisites: Two math credits including Geometry, Junior/Senior Status, and consent of instructor**

This course is designed for students entering the CNC program at NWTC. This course provides the opportunity for the learner to develop the knowledge skills process and understanding of solving equations, ratio, proportion, percents, practical plane geometry, solid figures, trigonometry and statistics. Students will have the opportunity to earn 2 transcribed credits at NWTC. **This course will not fulfill math requirements for a 4-year college.**

### **COLLEGE TECHNICAL MATHEMATICS 1A (NWTC)**

1 semester                    .5 credit            Grades: 11-12            Spring Semester

**Prerequisites: Algebra, Geometry and Junior or Senior Status**

Topics include solving linear equations; graphing; percent; proportions; measurement systems; computational geometry; and right triangle trigonometry. Emphasis will be on the application of skills to technical problems. Students will have the opportunity to earn 3 transcribed credits at NWTC. *(This course was formerly named College Math)* **This course will not fulfill math requirements for a 4-year college.**

## **INTERMEDIATE ALGEBRA W/ APPLICATIONS (NWTC)**

1 semester                      .5 credit                      Grades: 11-12                      Fall Semester

**Prerequisites: C or higher in Algebra II and Junior or Senior Status**

*This course is the 1<sup>st</sup> semester of Advanced Math/Pre-Calculus.* This course embodies algebra content with applications. Topics include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, logarithmic and exponential functions. Students will have the opportunity to earn 4 transcribed NWTC credits. This course is part of the General Transfer Certificate at NWTC with UWGB and UW-O.

## **CAPP PRE-CALCULUS (NCAA Approved)**

1 semester                      .5 credit                      Grades: 11-12                      Spring Semester

**Prerequisite: C+ or higher in Intermediate Algebra w/Applications**

*This course continues beyond Intermediate Algebra.* In this course, we will cover topics including functions, graphs, data analysis and modeling of real world problems, equations and inequalities, polynomial, rational functions, exponential and logarithmic functions, basic circular functions and their inverses, trigonometric identities and equations, triangle trigonometry, law of Sines and law of Cosines.

*Students who enroll in CAPP Pre-Calculus have the opportunity to enroll for both high school credit and college credit through the Cooperative Academic Partnership Program (CAPP) at UW – Oshkosh if they meet the criteria. This course will count as Math 108 (5 credits) at UW – Oshkosh. For more information talk to either the teacher, principal, or guidance counselor.*

## **CAPP CALCULUS I/AP CALCULUS-AB (NCAA Approved)**

1-2 semesters (to be determined) 1 credit                      Grade: 12

**Prerequisite: B- or higher in Pre-Calc and consent of instructor (CAPP requirements met)**

The Advanced Placement Calculus course consists of a full academic year of work in calculus and related topics comparable to courses in colleges and universities. It is expected that students who take an Advanced Placement course in calculus will seek college credit and/or placement from institutions of higher learning. Real valued functions of a single variable. Concept of derivative, antiderivative, and definite integral. Differentiation and applications, including optimization and curve-sketching. Emphasis on problem solving, approximation, data analysis, visualization.

*Students who enroll in CAPP Calculus I have the opportunity to enroll for both high school credit and college credit through the Cooperative Academic Partnership Program (CAPP) at UW–Oshkosh instead of taking the AP Calculus test. This course will count as Math 171 (4 credits) at UW–Oshkosh. For more information talk to either the teacher, principal, or guidance counselor.*

### **CAPP STATISTICS (NCAA Approved)**

1-2 semesters *(to be determined)* 0.5 credit Grade: 11-12

**Prerequisite: C+ or higher in Intermediate Algebra w/Applications and consent of instructor (CAPP requirements met)**

The CAPP Statistics course consists of descriptive statistics, elementary probability theory, sampling distributions, basic problems of statistical inference including estimation and confidence intervals, tests of hypothesis and regression. Class may be offered independently with consent of instructor.

*Students who enroll in CAPP Stats have the opportunity to enroll for both high school credit and college credit through the Cooperative Academic Partnership Program (CAPP) at UW–Oshkosh instead of taking the AP Stats test. This course will count as Math 109 (3 credits) at UW–Oshkosh. For more information talk to either the teacher, principal, or guidance counselor.*

## **PHYSICAL EDUCATION/HEALTH EDUCATION**

*Exemption from the physical education requirement may be obtained only upon recommendation of a physician and completion of a research project on physical education. Other exemptions could include Special Education and At-Risk Students.*

### **HEALTH EDUCATION**

1 semester .5 credit Grade: 10-12

**Prerequisite: None – Requirement for graduation**

The State of Wisconsin has mandated that all students must be enrolled in and successfully complete one-half credit of Health Education in order to graduate from high school

Units include – Making healthy choices, Self-Esteem, Stress Management, Mental Disorder, Building Healthy Relationships, Preventing Violence, Nutrition, Tobacco/Alcohol/Drug Abuse, STD's/AIDS.

### **PHYSICAL EDUCATION 9**

1 semester .5 credit Grade: 9

**Prerequisite: None- may be taken as Physical Education 9<sup>th</sup> grade graduation requirement**

The physical education section of this course is required of all students unless a physical disability is involved. A written statement from a doctor is necessary to excuse the student from active participation in Physical Education. The following are some of the activities: Aerobic training/BFS weight training; soccer; speedball, football; softball; volleyball; basketball; badminton; broomball and other outdoor winter activities; new games; wiffle ball; table tennis and floor hockey.

## **PE PERSONAL HEALTH AND AEROBIC FITNESS**

1 semester .5 credit Grades: 9-12

**Prerequisite: None- may be taken as Physical Education 9<sup>th</sup> grade graduation requirement**

This is a combination of courses designed for those who are uncomfortable in the team sport setting because they are non-competitive, unfit for strenuous activity, etc. The focus would be on establishing a pattern of regular, aerobic, individual activity that would increase personal fitness and confidence. Sessions would include discussions of diet, stretching and basic aerobic activity in addition to possible lifestyle changes that could lead to more optimal health. The goal would be to establish health and fitness routines that could be enjoyed for a lifetime. Additionally, study of the seven dimensions of wellness adds a classroom dimension to this course. Students will be required to do reading, basic research and oral presentations.

## **PE SPEED & POWER TRAINING**

1 semester .5 credit Grades: 11-12

**Prerequisite: Phy. Ed. 9 or PE Personal Health and Aerobic Fitness**

Speed and Power Training is designed for those experienced with weight training who want to prepare for strength activities such as powerlifting meets as well as those who simply wish to be better physically conditioned. The Bigger, Faster, Stronger program will be used to monitor/assess strength gains. Plyometric training and speed/conditioning drills will be a part of the course. **This course requires a great deal of intrinsic motivation since all work will be done based on individual goals.** Training partners and group activities will be provided. Aerobic fitness activities will be represented at least twice a week.

## **PE COURT ACTIVITIES**

1 semester .5 credit Grades: 10-12

**Prerequisite: Phy. Ed. 9 or PE Personal Health and Aerobic Fitness**

Activities offered in this course include team handball, badminton/racquetball, power volleyball, ultimate Frisbee, broom hockey and floor hockey. In addition a segment involving aerobics and ballroom dance will be included. East Coast swing dance and a short section of hip-hop dance are also included. Emphasis will be placed on participation and skill acquisition.

## **PE FUNDAMENTAL ACTIVITIES**

1 semester .5 credit Grades: 10-12

**Prerequisite: Phy. Ed. 9 or PE Personal Health and Aerobic Fitness**

Activities offered in this course include lacrosse, soccer, speedball/gator ball, ultimate frisbee/frisbee golf, aerobic walking and archery. Indoor activities will include but not be limited to pickle ball, table tennis and non-competitive games for teams. Emphasis will be placed on skill acquisition and aerobic conditioning.

## **PE OUTDOOR LIFE**

1 semester .5 credit Grades: 10-12

**Prerequisite: Phy. Ed. 9 or PE Personal Health and Aerobic Fitness**

This course is individual and co-educational in nature. In-depth study and practice of pickle ball, table tennis, badminton, golf and tennis will be the foundations of this course. Strategies of play and techniques for successful participation will be emphasized. Greens fees will be required for the golf section.

## **PE COMPETITIVE COURT ACTIVITIES**

1 semester .5 credit Grades: 11-12 (10- with permission of instructor)

**Prerequisites: Phy. Ed 9 or PE Personal Health and Aerobic Fitness & Court Activities**

Competitive Court Activities is designed for advanced-level students who wish to play competitively in the games of team handball, basketball, volleyball, wiffle ball, badminton, pickleball and floor hockey. All participants are expected to have mastered basic skills in preliminary classes. Each class will emphasize competitive play, and each player is expected to show competitive spirit and skill.

# **CAREER & TECHNICAL EDUCATION (CTE)**

## **BUSINESS EDUCATION**

### **JUNIOR ACHIEVEMENT**

1 semester .5 credit Grades: 7-10

Junior Achievement is the world's largest organization dedicated to educating students about workforce readiness, entrepreneurship and financial literacy through experiential, hands-on programs. JA helps prepare young people for the real world by showing them how to generate wealth and effectively manage it, how to create jobs which make their communities more robust, and how to apply entrepreneurial thinking to the workplace. Students put these lessons into action and learn the value of contributing to their communities. *JA Finance Park* allows students to build a foundation for making intelligent, lifelong personal-finance decisions. Finance Park combines in-class learning with a hands-on experience in a fully interactive field trip to Milwaukee for the capstone project.

### **MICRO: WORD, POWERPOINT & EXCEL-INTRO (NWTC)**

1 semester .5 credit Grades: 9-12

Learn word processing basics including creating, maintaining and enhancing text, tables, graphics and merging documents. Also, develop skills in presentation software such as: graphics, tables, diagrams, shapes, design themes, sounds, animations, slide transitions, and integration with other software. In Microsoft Office Excel, create worksheets, enhance worksheet appearance, use formulas and functions, and create charts. *This is a transcribed course through NWTC where upon successful completion of the class students in grades 9-12 can earn 3 college credits. Students can also opt to earn Microsoft Office Software (MOS) certifications.*

## **EMPLOYABILITY SKILLS/PERSONAL FINANCE**

1 semester .5 credit Grade: 11

### **Prerequisite: None - Graduation requirement**

In this course, students will also identify their career interests, explore career pathways, prepare job campaign materials, complete a mock interview and become a valued employee in the 21st Century. Learn how to thrive in the workplace, advance your employability skills, and properly complete work related forms.

Secure your financial future and discover new ways to maximize your earning potential, develop strategies for managing resources, and gain skills for the wise use of credit. Students also learn how to make sound financial decisions in areas of taxes, budgeting, banking, investing, insurance, purchasing a home/vehicle, and identity theft. Become better prepared to manage your money and face life's uncertainties in this required class.

## **CAPP PERSONAL FINANCE (UW-Oshkosh)**

1 semester .5 credit Grades: 11-12

### **Prerequisite: ES/PF**

Study the major financial decisions encountered by individuals. Subjects covered are: budgeting, use of credit, automobile and consumer durables, insurance, the housing decision, taxes, retirement planning, and investments. Each subject is analyzed within the context of a comprehensive framework of personal financial planning. Students who enroll have the opportunity to enroll for both high school credit and college credit through the Cooperative Academic Partnership Program (CAPP) at UW – Oshkosh. For more information talk to either the teacher, principal or guidance counselor.

## **ORGANIZING YOUR SMALL BUSINESS (NWTC)**

1 semester .5 credit Grades: 9-12

Looking for a hands-on approach to learning about business? In this course, students develop business plans and create marketing materials for their own business idea to help prepare for the real world of business. Experiences include business tours, guest speakers, Mini Business World and project based work with other CTE classes. *This is a transcribed NWTC course where upon successful completion of the class junior and senior students can earn 3 college credits.*

## **ACCOUNTING QUICKBOOKS/ EXCEL 2 (NWTC)**

1 semester .5 credit Grades: 11-12

### **Prerequisite: Micro: Word, Powerpoint & Excel-Intro**

An introductory accounting course in using QuickBooks software to create vendor/employee accounts, invoices, budgets, profit/loss statements, balance sheets, A/R, A/P, journals, graphs. Also learn advanced MS Office Excel formatting techniques and functions, working with templates, collaborating with multiple Excel users, Excel's database features and analysis tools. Requires prior completion of Micro: Word, Powerpoint & Excel-Intro which teaches an introduction to Excel. *This is a transcribed course through NWTC where upon successful completion of the class students in grades 11-12 can earn 2 college credits. Students can also opt to earn Microsoft Office Software (MOS) certifications.*

# **FAMILY AND CONSUMER SCIENCE**

## **CREATIVE DESIGN**

1 semester                      .5 credit                      Grades: 7-12

Are you creative? Do you enjoy doing crafts, sewing, and quilting? During this course we will be creating and designing a variety of projects using recycled materials, sewing using commercial patterns for clothing and learning how to create a simple block quilt. **STUDENTS ARE RESPONSIBLE FOR PURCHASING ALL SEWING SUPPLIES.**

## **INTRODUCTION TO FOODS**

1 semester                      .5 credit                      Grades: 8-12

This course will allow students to learn the fundamental skills of culinary arts by applying the principles of food safety and sanitation, quality food preparation such as measuring and food storage. Students will participate in labs and related classroom studies, discuss the how and why of cooking, and gain confidence in skills and techniques.

## **NUTRITION (NWTC)**

1 semester                      .5 credit                      Grades: 11-12

### **Prerequisite: Introduction to Foods**

This course focuses on the major nutrients (carbohydrates, proteins, fats, minerals, vitamins and water) in the planning of well-balanced diets and the nutritional analysis of well-balanced diets. Students are required to purchase materials for this course and can receive 1 transcribed credit from NWTC towards the Culinary Arts associate's degree program at NWTC

## **TODAY'S TEEN**

1 semester                      .5 credit                      Grades: 9-12

This course addresses the emotional, intellectual, and physical needs of the adolescent -- information, guidance, and support in making responsible life decisions. It is a comprehensive study of self-concept, drug use/abuse, divorce, death/loss, suicide, violence, stress, aging, friendships/dating, and understanding human sexuality. Information will be used by students as they practice critical thinking regarding their personal lives, apply problem solving and decision making skills, and deal with peer pressure.

## **CULINARY ARTS/ MULTICULTURAL FOODS**

1 semester                      .5 credit                      Grades: 10-12

### **Prerequisite: Introduction to Foods**

First half is an introductory course for students to gain experience working in a professional kitchen environment and using professional equipment, while learning the principles of preparing menu items such as appetizers, soups, salads, entrées, and desserts. There will be an emphasis in place on techniques and technology used in food industry.

The second half of the semester students will explore cultures, customs, traditions and foods from around the world and how they pertain to today's society. Food customs, special cooking techniques and equipment, and meal patterns of foreign countries, ethnic groups, and regions of the United States will be covered.

### **EARLY CHILDHOOD LICENSING FOR AGES 3-5 (NWTC)**

2 semesters                      1.0 credit              Grades: 11- 12

**Prerequisite: NONE**

This year long class will focus on the following:

#### Health/Safety/Nutrition

Health, safety, and nutrition in early childhood settings. Anti-bias perspectives; governmental regulations and professional standards; safe, healthy, and nutritionally sound early childhood programs, child abuse/ neglect mandates; SIDS risk reduction: Shaken Baby Syndrome.

#### ECE: Child Development

Child development in the early childhood education setting. Social, cultural and economic influences on child development; child development theories; development of children age three to eight; child development research; heredity and environment.

#### ECE: Social Studies, Art and Music

This portion will focus on beginning level curriculum development in the specific integrated content areas of social studies, arts, music, and movement.

Students are required to purchase materials for this course and can receive 9 transcribed credits from NWTC towards the Early Childhood Education associate's degree program at NWTC.

### **INTRODUCTION TO HEALTHCARE**

1 semester                      .5 credit              Grades: 10-12

This course is an overview of a variety of careers in the healthcare field. We will be going over the history and the future and the culture of the health care. We will also go over the skills you need to be employable, important of safety, specify the role, including personal characteristics, levels of education, and credentialing requirements for a variety of health care careers. Students have the ability to receive advanced standing from NWTC by receiving a B or better in the course. ***NOTE: Required course that needs to be taken in conjunction with/or prior to taking the CNA-Nursing Assistant Youth Option AND EMT***

### **ADVANCED HEALTHCARE**

1 semester                      .5 credit              Grades 11-12

**Prerequisite: Introduction to Healthcare**

This course addresses the most up to date, effective curricular and shadowing experiences in the industry. The goal is to get students comfortable outside of the classroom so that they can further their education.



### **C.N.A. NURSING ASSISTANT - *Start College Now***

1 semester (1.5 Credits for 3 class periods) Fall -or- Spring Semester

**Prerequisite: Junior/Senior Status AND must also take the Introduction the Healthcare course in conjunction with or prior to the CNA-Nursing Assistant course**

This is a two part course consisting of 50 hours of classroom instruction and 50 hours of clinical experience. The classroom portion will be taught by a licensed/certified nurse and will consist of responsibilities in the healthcare field; working with patients in the area of communication skills, observation, reporting and documentation, vital signs, infection control, and emergency recognition and procedures. The classroom instruction and clinical experience will prepare the individual student for the certification examination. Students wishing to participate in the Co-op program in the healthcare field successfully complete this course prior to job placement. Students will be responsible for purchasing workbooks and uniforms. *Students who successfully complete this course will be eligible to receive transcribed credit from NWTC. Guidelines and timeline for Start College Now must be followed. Please see Mrs. Holloway for the C.N.A. course work schedule for 1<sup>st</sup> semester.*

## **VISUAL ARTS**

### **2D ART**

1 semester .5 Credit Grades: 7-12

Students will learn through hands-on experience using a wide range of mediums to exemplify skills and create meaningful art. Materials included but are not limited to: graphite, ink, charcoal, watercolor, paint, and pastels. Art History will be learned along the way! Formal and on-the-spot, in progress critiques will be held in small group and full class settings. Want to learn how to draw better, join 2D Art!

*Lab Fees will apply*

### **3D ART**

1 semester .5 Credit Grades: 7-12

Students will learn through hands-on experience and will use a wide range of mediums to exemplify skills and create meaningful art. Materials include but are not limited to: clay, plaster, paper, and found objects. Relevant historical and modern artists and art pieces will be studied along the way. Formal and on-the-spot, in progress and final critiques will be held in small group and full class settings to practice vocabulary and talking about art.

*Limit: 15 Students Lab Fees will apply*

### **ART INDEPENDENT STUDY**

1 semester .5 Credit Grade: 9-12

#### **Consent of Instructor**

For the highly motivated individual who is looking to challenge themselves through art practices; this course is intended for students who desire to pursue self-directed semester long projects.

*Lab Fees will apply*

# TECHNOLOGY AND ENGINEERING EDUCATION

## **MS INTRODUCTION TO TECH-ED**

1 semester .5 credit Grades: 7-8

Students will learn the building blocks of manufacturing, welding, sheet metal, and woodworking. Basic equipment/tooling knowledge, measurement, and blueprint skills will be explored.

*Limit: 24 Students \$30 Lab Fees will Apply*

## **MS MANUFACTURING**

### **Prerequisite: Introduction to Tech-Ed**

1 semester .5 credit Grades: 7-8

Students will build from the skills and concepts acquired from INTRODUCTION TO TECH-ED and create class based projects.

*Limit: 24 Students \$30 Lab Fees will Apply*

## **AUTO UPKEEP \*\*\*\*NEW\*\*\*\*\***

1 semester .5 credit Grades: 10 -12

Auto Upkeep will allow the student to learn about basic auto maintenance, repair, and inspection, choosing insurance policies, car loans, quality repair companies, handle roadside emergencies, diagnose common problems, and communicate effectively with technicians. Students will have the opportunity to learn hands on how to change oil, light bulbs, air filters, spare tires, and inspect tires and brakes for wear. A class vehicle will be offered for those who do not have one.

*Limit: 18 Students \*students are expected to cover costs if they work on their own vehicles\**

## **ALGOMA WOLF TECH**

1 semester .5 credit Grades: 9-12

### **Prerequisite: Fundamentals of Woods or Fundamentals of Machine Shop or Middle School Manufacturing**

This class will explore manufacturing technologies starting with the design process and moving through the steps needed to make a final product. Students will work in a business like atmosphere where the class will produce items for sale and in turn have the ability to learn skills in welding, fabricating, machining, drafting, woodworking, and assembly. Students are expected to create/run two Fab Lab events during the class.

*Limit: 24 Students*

## **FUNDAMENTALS OF CAD (Computer Aided Design)**

1 semester .5 credit Grades: 9-12

The student will be able to create Orthographic blueprints by hand and CAD. Mechanical and Architectural drawings will be covered during this class. The student will also create a scale model of a house that they draw. Finally, 3D modeling.

*Limit: 15 Students \$10 Lab Fees will apply*

## **FUNDAMENTALS OF WOODWORKING**

1 semester .5 credit Grades: 9-12

Students will learn the building blocks of the woodworking field and then demonstrate those by making a predetermined projects. Concepts such as shop safety, tool/equipment identification and use, measurement, lumber, following instructions and setups, and assembly will be covered in this class. Once a student has completed the class projects, they may have an opportunity to work a personal project if there is enough time left in the class.

*Limit: 18 Students \$30 Lab Fees will apply*

## **CABINETS & FURNITURE DESIGN**

1 semester .5 credit Grades: 9-12

### **Prerequisite: Fundamentals of Woodworking**

Students will expand from Fundamentals of Woodworking to further their skills in wood shop by construction class projects that emphasise cabinetry and furniture. Cabinetry and furniture concepts such as: shop safety, tool and equipment identification and use, drawers, doors, face frames, mortise and tenon, pocket screws, finishing, measurement, blueprint reading, and assembly will be covered in this class.

*Limit: 18 Students \$30 Lab Fees will apply*

## **INDEPENDENT STUDY WOODWORKING**

1 semester .5 credit Grades: 11-12

### **Prerequisites: Cabinetry & Furniture Design & Instructor Approval**

For the highly motivated individual who is looking to challenge themselves in the field of woodworking. The student will research and design an advanced woodworking project. The student may also participate in Algoma Wolf Tech. The student will create a portfolio documenting the following: Overview, blueprint, Bill of Materials, Procedures list, a reflection, and photographs throughout the project.

*Limit: 18 Students Lab Fees will depend on student's project(s)*

## **DIY-PINTEREST**

1 semester .5 credit Grades: 9-12

Are you a Pinterest fanatic? Are you creative at heart? Well, here is your chance to design, create, and build those ideas. You will have the ability to create projects straight from Pinterest in either wood or metal. As the designer, you will be the driving force and trend-setter of a new style of shop in this class.

*Limit: 24 Students Lab Fees will depend on student's project(s)*

## **FUNDAMENTALS OF MACHINING**

1 semester .5 credit Grades: 9-12

During Fundamentals of Machining, students will cover topics: safety, hand tools, blueprint reading, precision measuring, layout, manual mill, and lathe operations. There will be a class project that will incorporate concepts that are covered throughout the semester.

*Limit: 12 Students \$30 Lab Fees will apply*

## **FUNDAMENTALS OF WELDING & FABRICATION**

1 semester .5 credit Grades: 9-12

During welding students will learn: safety, blueprint reading, layout, Ironworker operation, Oxy Acetylene torch, MIG welding, and Plasma torch setups, grinding, and 6 basic types of welding. There will be a class project that will incorporate concepts that are covered throughout the semester.

*Limit: 12 Students \$30 Lab Fees will apply*

## **ADVANCED WELDING & FABRICATION**

1 semester .5 credit Grades: 10-12

### **Prerequisite: Fundamentals of Machine Shop & Fabrication**

This is a project based class that will offer the student to select a discipline area and focus more in depth on welding. Welding setups, TIG welding of steel and aluminum, pipe welding, will be available

*Limit: 18 Students \$30 Lab Fees will apply*

## **INDEPENDENT STUDY MACHINE SHOP**

1 semester .5 credit Grades: 11-12

### **Prerequisite: Advanced Welding & Fabrication or Intro to CNC Milling Operations or Intro to CNC Turning Operations & Instructor Approval**

For the highly motivated individual who is looking to challenge themselves in the field of machine shop design and fabrication. The student will research and design advanced machining or fabrication project/s. A portfolio documenting the following: Overview, blueprint, Bill of Materials, Procedures list, a reflection, and photographs throughout the project will need to be completed.

*Lab Fees will depend on student's project(s)*

## **BLUEPRINT READING/SKETCHING-MACHINE I (NWTC)**

1 semester .5 credit Grades: 10-12

Fundamentals of sketching, orthographic projection, auxiliary views, sectional views, dimensioning, precision and non-precision measurement, and general print reading.

*\*Juniors and Seniors will receive 2 credits from NWTC if a 'B' or better is earned\**

*Limit: 10 Students*

## **INTRO TO G-CODE AND CAM I (NWTC)**

1 semester .5 credit Grades: 10-12

### **Pre/Corequisite: Blueprint Reading/Sketching-Machine 1**

CNC basics, Cartesian coordinate systems, G-Code programs for milling machines, using a personal computer to create geometry and programs using CAD CAM systems for CNC milling machines. *\*Juniors and Seniors will receive 2 credits from NWTC if a 'B' or better is earned\**

*Limit: 10 Students*

## **INTRO TO CNC MILLING OPERATIONS (NWTC)**

1 semester                      .5 credit                      Grades: 10-12

### **Prerequisites: Intro to G-Code and CAM 1**

Shop safety around CNC milling machines, CNC milling machine controls and preparing basic G-Code milling programs.

*\*Juniors and Seniors will receive 1 credit from NWTC if a 'B' or better is earned\**

*Limit: 10 Students      \$25 Lab Fees will apply*

## **INTRO TO CNC TURNING OPERATIONS (NWTC)**

1 semester                      .5 credit                      Grades: 10-12

### **Prerequisites: Intro to G-Code and CAM 1**

Shop safety around CNC turning machines, CNC turning machine controls, preparing basic G-Code lathe programs, set up, and operation of CNC turning machines.

*\*Juniors and Seniors will receive 1 credit from NWTC if a 'B' or better is earned\**

*Limit: 10 Students      \$25 Lab Fees will apply*

## **FOREIGN LANGUAGE**

Many colleges and universities have a foreign language requirement, either for entrance or for graduation. A minimum of two years is strongly recommended. In the University of Wisconsin system, there is the possibility of retroactive college credit for advanced knowledge of a foreign language. This means you could earn four free credits for every year of high school foreign language (up to 16 credits at no charge).

### **MS EXPLORATORY SPANISH**

1 semester                      .5 credit                      Grades: 7-8

Exploratory Spanish is a semester-long class that bridges elementary and high school studies. The emphasis is on listening, speaking, and vocabulary acquisition. This class may include a variety of topics and will help students to decide if they wish to study Spanish in high school. Because of the communicative nature of language, class participation, partner activities, and group work will be emphasized.

### **SPANISH I (NCAA Approved)**

2 semesters                      1 credit                      Grades: 8-12

This course strives to familiarize students with language learning and vocabulary acquisition. Using the four areas of language study: speaking, listening, reading, and writing, students will develop a basic vocabulary and knowledge of the cultures studied.

### **SPANISH II (NCAA Approved)**

2 semesters                      1 credit                      Grades: 9-12

#### **Prerequisite: "C" average in Spanish I**

This course continues the emphasis on speaking, listening, reading, and writing. Students will build on the vocabulary and skills they have acquired in Spanish I and expand on them. Students will continue to study the geography, history, and culture of the Hispanic world.

### **SPANISH III (NCAA Approved)**

2 semesters                      1 credit                      Grades: 10-12

#### **Prerequisite: "C" average in Spanish II**

Spanish III places further emphasis on the four main skills with the writing skill being stressed. The vocabulary is more specialized and the grammar more advanced. Students will read a variety of short stories as well as excerpts from major Spanish works. Students will again consider important aspects of Hispanic history and culture.

### **CAPP INTERMEDIATE STRUCTURE AND EXPRESSION II (SPANISH IV)**

*(NCAA Approved)*

2 semesters                      1 credit                      Grades: 10-12

#### **Prerequisite: "C" average in Spanish III**

In this upper level of Spanish study, the literature of Spain and Latin America, as well as poetry, art and history will be emphasized. Through these studies, grammar will be constantly reviewed. Students will also read excerpts from several famous novels.

*Juniors and Seniors who enroll in Spanish IV have the opportunity to enroll for both high school credit and college credit through the Cooperative Academic Partnership Program (CAPP) at UW – Oshkosh. For more information talk to either the teacher, principal, or guidance counselor. There is a charge from the university for the college credits.*

### **SPANISH V (NCAA Approved)**

2 semesters                      1 credit                      Grades: 11-12

#### **Prerequisite: "C" average in Spanish IV**

This upper level of Spanish study is a continuation of Spanish IV. We will continue studying the literature and culture of Spain and Latin America with increased expectation of communication and independence. Through these studies, grammar will be constantly reviewed.

## **MUSIC EDUCATION**

### **MS BAND**

2 semesters    Meets Everyday (*EOD if taking MS Chorus*)                      Grade: 7 or 8

The MS Band is a performing ensemble. Students will be required to attend 1 parade and 3 concerts. This ensemble is open to all students with experience playing a traditional concert band instrument (or with permission from Mrs. Massey). Student rehearsals will consist of learning music appropriate for the band's ability. Students will play standard band repertoire and explore more challenging music. 7th and 8th grade students will meet as separate ensembles.

## **MS CHORUS**

2 semesters    Meets Everyday (*EOD if taking MS Grade Band*)                      Grade: 7 or 8

This choir is a performing ensemble that participates in at least two concerts a year. Students have the option of participating in one or two festivals a year. Exceptional students have the opportunity of auditioning for "All-State" choirs. Fundamentals of good singing are taught. Good posture, breathing, and good tone are emphasized and reinforced through warm-ups and quality literature. Sight singing, music notation and theory are introduced/reviewed.

## **CONCERT BAND**

2 semesters                      1 credit                      Grades: 9-12

The Concert Band is a performing ensemble. Students (mainly freshmen and sophomores) will be required to attend 3 parades, 3 concerts and 12 pep band games. This ensemble is open to all students with experience playing a traditional concert band instrument (or with permission from Mrs. Massey). Rehearsals will consist of learning music appropriate for the band's ability. Time will be spent learning pep band music and concert band music. Students will play standard band repertoire and explore challenging music throughout the year. Note: Students can participate in both Band and Chorus by registering for "Band Part" and "Chorus Part".

## **WIND ENSEMBLE**

2 semesters                      1 credit                      Grades: 11, 12

The Wind Ensemble is a performing ensemble. Students **MUST** be Juniors and Seniors and will be required to attend 3 parades, 3 concerts and 12 pep band games. This ensemble is open to all junior and senior students with experience playing a traditional concert band instrument (or with permission from Mrs. Massey). Student rehearsals will consist of learning music appropriate for the band's ability. Wind Ensemble participants will play at a high level and push themselves as individuals/members of the full ensemble. Time will be spent learning pep band music and concert band music. Students will play standard band repertoire and explore challenging music throughout the year.

## **CONCERT CHOIR**

2 semesters    1 credit                      Grades 9-12

Students will explore the elements of music and the various styles of music through performance. The ensemble performs in at least three concerts a year and a chorus festival. The basics of music reading are covered. Those who want to be in the musical should strongly consider taking chorus. Note: Students can participate in both Band and Chorus by registering for "Band Part" and "Chorus Part".

## **VOCAL ENSEMBLE**

2 semesters                      1 credit                      Grades 9-12

Vocal ensemble is a performing ensemble. Students must successfully pass an audition or be assigned to the ensemble by Mr. Robertson. This choir is meant for vocalists that can rehearse and perform at a high level and have demonstrated the ability to do so. Typically students will need to have completed at least one year of Concert Choir to be considered for this ensemble.

## **MUSIC THEORY**

Spring Semester Only      .5 credit      Suggested Grades 10-11, open to all HS students  
Music Theory explores the basic elements of music including literacy, composition, analysis, and ear training. While this class is open to all curious students it is highly recommended to students considering music as a career or emphasis of study post-high school.

## **OTHER OPPORTUNITIES**

### **BETA**

2 semesters

#### **Instructor approval required**

Beta is a space where students learn from and with each other. They learn how to lead from within, together, for sustainable and equitable outcomes. Tools will be shared to build their leadership capacity which they will then apply to a change initiative of their choice for themselves, the school, and/or community. Opportunity for additional credits may be available based on the focus of the student's change initiative.

### **ACADEMIC LEARNING LAB (A.L.L.)**

1 or 2 semesters      Grades: 7-12

#### **Guidance/Teacher approval required.**

A.L.L. (Academic Learning Lab) is a dedicated period within our daily schedule designed to meet the needs of all learners. Students can be scheduled for enrichment, credit recovery, support, or simply extra time to complete assignments. Students have access to instructional aides, special education teachers and content experts for specific needs. Utilizing A.L.L. can accomplish many tasks that are focused on the success of every individual student.

### **WORK BASED LEARNING**

2 semesters    0.5/per semester      Grades: 11-12

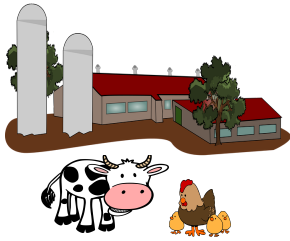
#### **Prerequisite: Junior/Senior Status**

Work experience affords the student an opportunity to explore a career area of interest in a "hands-on" manner. The student will leave the high school campus and travel to the work site for an on-site experience. The work experience best serves the student if the student can match the work experience as closely as possible to their future career plans. The student is expected to contact potential work sites for availability. Work experience is evaluated on a Satisfactory/Unsatisfactory (S/U) basis, and the grade is determined by the workplace supervisor. Since work experience is a class, attendance and performance of assigned duties is expected; failure to do so may result in no assigned credit. **Work Based Learning is by principal consent ONLY.**

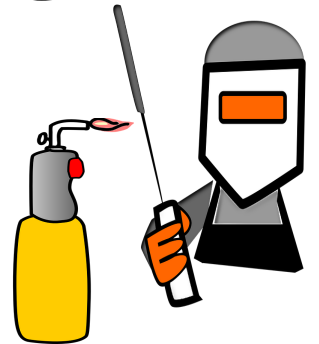


## ***YOUTH OPTIONS***

*The Youth Options Program has been replaced, beginning 7/1/18, with 2 different statutes, the Start College Now program (Technical College Dual enrollment) and Early College Credit Program (4 year institutional dual enrollment). If you would like more information on either of these programs, please see administration.*



# **Do you have an interest in Agriscience or Welding?**



**Please see Mrs. Holloway or Mr. Cochart for information about the Ahnapee Regional Technical Academy (ARTA) and how you can take courses at Kewaunee High School as an Algoma High School student!**