

2016-2017

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

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

*** Starting with the class of 2018: Computer Essentials and Today’s Teen are no longer required courses. Students will instead choose 1.5 additional STEAM/CTE credits in addition to Employability Skills/Personal Finance.**

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

· **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. 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 Career

Transcribed Credits Courses:

- English Composition I**
- Oral and Interpersonal Communication **
- Communicating-Writing
- General Chemistry**
- Basic Anatomy**
- Intro to Psychology**
- Intro to Sociology**
- Contemporary American Society**
- Math 1-Trades
- Math 2-Trades
- College Math
- 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

***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.

Courses available:

- Spanish IV (*Spanish 204*)
- Pre-calculus (*Math 108*)
- Calculus I (*Math 171*)
- Personal Finance (*Business 231*)
- Art 101

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)

ALGOMA MIDDLE SCHOOL

- All middle school students will be scheduled for their core courses: Language Arts, Math, Science and Social Studies.
- 7th grade students will be required to take Individual, Family and Society/ Physical Education every other day (EOD) throughout the entire school year.
- 8th grade students will be required to take Career Exploration/ Physical Education every other day (EOD) throughout the entire school year.
- Other electives can be chosen from the High School course selections.

COURSE OFFERINGS BY DEPARTMENTS

ENGLISH

MS BOOK SOCIETY

1 semester Grade: 7-8

Delve deeper into the fabulous world of literature with a close-knit group of other readers! This class is full of special projects and group activities for students who love to read, write, think, and act. This student-directed class that will determine the literature that is studied, based on student interest. Book Society members are also responsible for planning, designing, and creating the middle school yearbook.

MS ENGLISH ESSENTIALS

2 semesters Meets EOD Grades: 7-8

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

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

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

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

ENGLISH COMPOSITION I

1 semester .5 credit Grade: 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

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 (NCAA Approved)

1 semester .5 credit Grades: 11-12

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

Students will develop their writing skills by composing papers commonly assigned at the college level. 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 writing with a review on how to find and use highly credible sources and properly cite them using MLA and APA formatting. Students will also develop their critical thinking, analysis, and synthesis skills. A community based research project will use a team approach to further develop research and presentation skills. The intent of this course is to help students feel prepared for writing at the college level.

CREATIVE WRITING (NCAA Approved)

1 semester .5 credit Grades: 11-12

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

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

Students will develop creative writing skills in such areas as fiction, poetry, and drama by reading the works of established authors and creating original works.

SHAKESPEARE

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 works of the established author using discussion, writing, and presentation skills.

MULTICULTURAL LITERATURE (NCAA Approved)

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 works of literature by authors from diverse perspectives and backgrounds using discussion, writing, and presentation skills.

ARTHURIAN LEGEND (NCAA Approved)

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 literature of King Arthur and the Knights of the Round Table using discussion, writing, and presentation skills.

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 (Government, 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 geography.

US HISTORY I (NCAA Approved)

2 semesters 1 credit Grade: 10

Prerequisite: Successful completion of Social Studies Seminar

1492 To End of Civil War- This course begins with the discovery and exploration of the land that became the United States and concludes with the end of the Civil War. This course is taught thematically. The themes for US History I are American Identity, Business and Industry, Political Thought, African Americans and Slavery, Native Americans and Expansion, Balance of Power, War and Foreign Policy and the Closing of the West.

US HISTORY II (NCAA Approved)

2 semesters 1 credit Grade: 11

Prerequisite: Successful completion of Social Studies Seminar and U.S. History I

Reconstruction To The Present Day- This course is a continuation of Reconstruction following the Civil War to the Present Day. This course is taught thematically. The themes for US History II are the Gilded Age, The President and Leadership in America, Boom and Bust (Business and Economy), With Liberty and Justice for All, American Culture, War Empire and Global Leadership, Freedom vs. Totalitarianism and Belief System.

INTRO TO PSYCHOLOGY (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 (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.

CRIMINAL MINDS

1 Semester .5 credit Grades: 11-12

Prerequisite: Successful completion of Psychology or Sociology

Do you love shows like CSI or Law and Order? Do you wonder how or why people commit senseless crimes like murder or terrorism? Then this course is for you! We will explore the motivations of criminals from both a psychological and sociological perspective, and examine the workings of the criminal justice system including the investigation, trial, and sentencing. We will also focus on aspects of constitutional law as it pertains to the rights of the accused.

CONTEMPORARY AMERICAN SOCIETY (NCAA Approved)

1 semester .5 credit Grades: 11-12

Prerequisite: Junior status

Contemporary American Society focuses on major social institutions within the American society: government, family, education, religion, and economic system. The class also explores challenges our country currently faces, and attempts to come up with solutions to those challenges. Topics may include the environment, healthcare, terrorism, foreign policy, and others. Students will also be required to comment on and discuss important news events of the day. The bulk of coursework will be done online. 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.

FEATURED TOPICS IN HISTORY: WORLD WAR II

1 semester .5 credit Grades: 11-12

Prerequisite: Successful completion of US History I

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 I

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.

AP US HISTORY EXPRESS

Second semester only .5 Credit Grade: 12

Prerequisite: Successful completion of US History II

This course is designed to help students review material and learn the test taking and writing skills to prepare them for the AP US History Exam. The course will follow the outline as suggested by the Advanced Placement History course description booklet published by the College Board. Students will have the opportunity to take an AP exam at the end of the course. Following the AP exam, students will complete an independent research project on the topic of their choice. This course could be completed independently online.

SCIENCE

BOTANY

1 semester .5 credit Grades: 8-12

Prerequisite: 7th grade Science

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: 8-12

Prerequisite: 7th grade Science

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.

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 (NCAA Approved)

2 semesters 1 credit Grades: 11-12

Prerequisite: Successful completion of Physical Science 9 & 10, Biology 9 & 10, and Algebra I (or consent of instructor)

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 UW-O when taken at the junior or senior level.

ENVIRONMENTAL SCIENCE SURVEY (NCAA Approved)

1 semester .5 credit Grades: 9-12

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.

WISCONSIN FORESTRY AND WILDLIFE (NCAA Approved)

First Semester only .5 credit Grades: 9-12

Prerequisite: None

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

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.

AP BIOLOGY (NCAA Approved)

2 semesters 1 credit Grades: 11-12

Prerequisite: Biology 9 & 10, Chemistry and Consent of Instructor

This course is designed to be the equivalent of a college introductory biology course. Topics include molecules and cells, heredity and evolution, and organisms and populations. This course will prepare the student to take the College Board Advanced Placement Test which may entitle students to college credit.

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

1 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 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.

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 1- TRADES

Second semester only .5 credit Grades: 11-12

Prerequisites: Two math credits and Junior or Senior Status and consent of instructor

This course is intended for students pursuing careers in cabinet making or welding through NWTC. This course provides the opportunity for the learner to develop the knowledge skills process and understanding of the math concepts covered in the NWTC course Math for the Trades I. Concepts covered include: whole numbers, fractions and mixed numbers, decimals, measurements and conversions, trigonometry, practical plane geometry (areas, perimeters, etc), integers, and solving equations - all with and without a calculator. Students will have the opportunity to earn 2 transcribed credits at NWTC. **This course will not fulfill math requirements for a 4-year college.**

MATH 2 -TRADES

Second Semester only .5 credit Grades: 11-12

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 MATH

Second semester only .5 credit Grades: 11-12

Prerequisites: Algebra, Geometry and Junior or Senior Status

This course is an NWTC introductory level course designed to review and develop fundamental concepts of arithmetic, algebra, geometry and statistics. Emphasis will be placed on computational skills and applications of rational numbers, problem solving skills with ratios, proportions, and percents; basic principles and applications of algebra, geometry, graphing and statistics; measurement skills in U.S. Customary and Metric systems; and the use of calculators as a tool. Students will have the opportunity to earn 3 transcribed credits at NWTC. **This course will not fulfill math requirements for a 4-year college.**

INTERMEDIATE ALGEBRA W/ APPLICATIONS

First semester only .5 credit Grades: 11-12

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

This course is the 1st 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)

Second semester only .5 credit Grades: 11-12

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-Calculus 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.

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 9th 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; wiffleball; 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 9th 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 power lifting 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 coeducational 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, pickle ball 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 through JA Finance Park and Economics for Success curriculum. *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. *JA Economics for Success* prepares students for a successful economic life: choosing the right career, managing money properly and exploring entrepreneurship.

CAREER EXPLORATION

2 semester Meets EOD Grade: 8

Required course

Explore career pathways to help plan your journey from middle school and beyond to achieve the career you desire. Participate in authentic activities such as Junior Achievement-It's My Future program, create an academic career plan, and practice job skills in order to be college and career ready.

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 formula 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 certificates.*

EMPLOYABILITY SKILLS/PERSONAL FINANCE

1 semester .5 credit Grades 11-12

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. *Students have the opportunity to earn an Employability Skills*

certificate through WI Department of Public Instruction. 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

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, estate transfer 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 11-12

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 NWTC course where upon successful completion of the class junior and senior students can earn college credits and certifications.*

INDEPENDENT STUDY IN BUSINESS

1 semester .5 Credit Grade: 12

Prerequisite: Consent of Instructor

For the highly motivated individual who is looking for a challenge and a head start in pursuing a career in business. This course is intended for students who desire to fulfill a business class as an independent study option for other selected courses. Must receive approval from teacher.

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.

FOOD & NUTRITION

1 semester .5 credit Grades 10-12

Prerequisite: Introduction to Foods

Students will understand food's role in society, how to plan and prepare healthy meals, and learn the background on the nutritional needs and requirements for healthy living. This class will focus on nutrients in foods, "myplate", and healthy eating.

TODAY'S TEEN

1 semester .5 credit Grades 9-12

Formerly Parenting, 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.

PARA: CHILD AND ADOLESCENT DEVELOPMENT

1 semester .5 credit Grades 11- 12

This course goes over growth and development birth through adolescence. Acquaints the learner with the fundamental tasks of physical, motor, perceptual, cognitive social/emotional and language development. Students are required to purchase materials for this course and can receive 3 transcribed credits from NWTC towards the Instructional Assistant associate's degree program at NWTC.

ECE: FOUNDATIONS OF EARLY CHILDHOOD EDUCATION

1 semester .5 credit Grades 11-12

This course will review the variety of early childhood programs and the responsibilities that an early childhood teacher will have day to day. You will create a variety of learning experiences for children, such as storytelling, sensory experiences, and music. You will learn about the different programs that are for infants and toddlers through school age. We will focus on understanding the physical, cognitive, and social emotional development of toddlers to school-age children. During the semester we will learn how to create a safe and healthy environment. Students will also self-evaluate their own development and readiness to work with children either as a parent or childcare worker. Students are required to purchase materials for this course and can receive 3 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***

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 - *Youth Options*

1 semester (1.5 Credit 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 Youth Options must be followed. Please see Mrs. Holloway for the C.N.A. course work schedule for 1st semester.***

VISUAL ARTS

ART 101: ELEMENTS OF STUDIO ART

1 semester .5 Credit Grades 11-12

This course is designed to give non-Art Majors experiences in a variety of 2D and 3D Studio Art media and techniques in an effort to expand their knowledge, appreciation, and understanding of Art and Design within the context of the Liberal Arts.

Students who enroll in Art 101: Elements of Studio Art 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. *Lab Fees will apply*

ART DIGITAL PHOTOGRAPHY

1 semester .5 Credit Grades: 7-12

This course introduces students to digital media and is suitable for anyone with an interest in either photography or special effects. Students will learn to effectively use DSLR cameras as well as Adobe Photoshop as they create, edit, and enhance digital images.

Limit: 15 students Lab Fees will apply

ART & DESIGN

1 semester .5 Credit Grades: 7-12

This introductory course provides students with a foundation for producing 2D and 3D artwork. Students will learn about the cultural relevance of art, past and present, as they gain visual intelligence. In addition, students will experience the power of art as a tool for visual communication firsthand as they develop their own art making skills and abilities!

Lab Fees will apply

DIGITAL DRAWING & DESIGN

1 semester .5 Credit Grades: 7-12

Did you like Digital Photography or Comic Book Art? This class gives you the opportunity to learn more about digital tools. By the end of the course, students will be able to effectively use Adobe Illustrator as a graphic tool for visual communication in real life applications. Students will engage in cross-curricular work as they will collaborate with students from other departments to provide informed design for project based work.

Lab Fees will apply

DO IT YOURSELF – DESIGN

1 semester .5 Credit Grades: 7-12

Are you creative? How would you like to make your own custom accessories and garment treatments such as tie-dyeing, embroidering, and adding other embellishments. We will explore the possibilities of revising thrift store finds and blurring the lines between craft and art. The class will also examine a range of inspiration for our fashions from different historical periods to current street fashions. Be a trendsetter - take DIY Design! This course will/has the potential to be collaboratively taught by Mrs. Hendrickson and Ms. Ballone.

Lab Fees will apply

ART UNDERSTANDING CONTEMPORARY ART

(Possible ITV/Distance Learning Course)

1 semester .5 Credit Grades: 7-12

Students will have the opportunity to learn more about contemporary art which has come to include anything and everything; often perplexing the average museum visitor. Find out how, starting with a mass-produced toilet, other objects such as: a pickled shark, pile of rubbish, or multi-screen video became accepted as works of art! Critique will play an important part of the process we use to de-code contemporary art. Be ready for some interesting, fun, and difficult discussions!

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

ALGOMA WOLF TECH

1 semester .5 credit Grades: 7-12

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.

Limit: 24 Students \$20 Lab Fees will apply

STEM/VEX IQ Robotics

1 semester .5 credit Grades: 7-10

VEX IQ is a robotics platform designed to transform STEM learning for students. Students will work in pairs and be able to snap robots together based on platform blueprints and instruction manuals. Robots are controlled based on a controller or autonomously using software. STEM ideas and lessons and skills are taught using the VEX IQ Robots. This is designed for the student who likes to design, build, and test using robots.

Limit: 22 Students \$15 Lab Fees will apply

FUNDAMENTALS OF CAD (Computer Aided Design)

Semester Course .5 credit Grades: 7-12

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 is introducing using Solidworks.

Limit: 21 Students \$10 Lab Fees will apply

3-D MODELING RESEARCH & DESIGN

1 semester .5 credit Grades: 9-12

Prerequisite: Fundamentals of CAD

Students will be use concepts from CAD and build 3-D models using Solidworks. Students will design and build 3-D and mechanical prototypes and 3-D animations. This class emphasizes science, technology, engineering, art, and math skills.

Limit: 21 Students \$15 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 pre-determined 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 \$20 Lab Fees will apply

DIY-PINTEREST

1 semester .5 credit Grades: 7-12

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. No experience required in the wood or metal shop.

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

CABINETRY & 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 \$25 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)

FUNDAMENTALS OF MACHINE SHOP DESIGN & FABRICATION

1 semester .5 credit Grades: 9-12

This class will be broken down into two 9 week courses: Welding and Machining. During welding students will learn: safety, blueprint reading, layout, Oxyacetylene torch, MIG welding, and Plasma torch setups, grinding, and 6 basic types of welding. During machining topics that will be covered are: safety, blueprint reading, precision measuring, and manual mill and lathe setup. There will be a class project that will incorporate concepts that are covered throughout the semester. *Limit: 18 Students \$20 Lab Fees will apply*

ADVANCED WELDING & FABRICATION

1 semester .5 credit Grades: 9-12

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. TIG welding of steel and aluminum will be available

Limit: 18 Students \$25 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. The student may also participate in Algoma Wolf Tech. A portfolio documenting the following: Overview, blueprint, Bill of Materials, Procedures list, a reflection, and photographs throughout the project will need to be completed.

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

BLUEPRINT READING/SKETCHING-MACHINE I (131-421-352)

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 'C' or better is earned

Limit: 10 Students

INTRO TO G-CODE AND CAM I (131-420-337)

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 'C' or better is earned

Limit: 18 Students

INTRO TO CNC MILLING OPERATIONS (31-420-336)

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 'C' or better is earned

Limit: 18 Students \$25 Lab Fees will apply

INTRO TO CNC TURNING OPERATIONS (31-420-339)

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 'C' or better is earned

Limit: 18 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).

SPANISH I (NCAA Approved)

2 semesters 1 credit Grades: 7-12

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: 8-12

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: 9-12

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.

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.

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 7th/8th 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 more 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 more challenging music throughout the year.

CHORUS

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”.

OTHER OPPORTUNITIES

ACADEMIC LEARNING LAB (A.L.L.)

1 or 2 Semesters Grades: 7-12

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 (*see the Guidance Department for permission for placement*).

YEARBOOK

2 Semesters 1 credit Grades 9-12

Students will help design and create the 2016-2017 Yearbook. No previous skills required, though the desire to work hard and follow through on projects is a must. Students will have numerous opportunities to use their creativity and talents through photography, writing, and design. Yearbook staff members need to be self-motivated and possess the ability to work independently on yearbook pages and also work collaboratively.

WORK BASED LEARNING

2 Semesters .25 credit 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

1 Semester .50 credit for each 1 credit college course Grades: 11-12

Prerequisite: *Must meet application deadlines of March 1st for first semester courses and October 1st for second semester courses. Youth Options paperwork must be filled out and submitted and have school board approval by semester deadlines of March 1st and October 1st.*

The Youth Options program allows all public high school juniors and seniors, who meet specific requirements, the opportunity to take post secondary courses at a UW institution, technical college, or one of the participating private, non-profit institutions of higher education. The purpose for participating in this program would be to take one or more college courses not offered at Algoma High School. Students receive high school and/or college credit. To qualify for this program, students must be in good standing academically and meet the criteria and timelines established by the post secondary institution. See the guidance counselor or principal for details.

DISTANCE LEARNING/ITV COURSES

Prerequisite: Junior or Senior Status or consent from principal

HIGH SCHOOL COURSES:

Algoma High School as part of the ShoreNet distance learning network and of the statewide BadgerNet network, is provided access to a wide variety of classes, which in the past have included the following course areas:

- Advanced Placement Courses
- Agriculture Education
- Business Education
- Computer Science
- English
- Foreign Languages
- Mathematics
- Science
- Social Studies

***NOTE: If you are interested in a specific genre or course, please see Mrs. Holloway in the guidance office regarding possible availability from other statewide ITV networks**

TECHNICAL COLLEGE COURSES:

Any course taken via the Distance Learning - ITV Network from a Post Secondary Institutes of Secondary Education will receive dual credit, which means students will receive high school credit and technical college credit.

- The availability of these courses is driven by enrollment and minimum numbers must be attained before the Technical College will schedule the course
- Technical college courses may also become available the closer we get to scheduling dates.

**KEWAUNEE COUNTY SCHOOLS PARTNERSHIP
2016-17 CURRICULUM**

The Algoma School District is proud of their many partnerships in education. Starting with the 2016-17, the Kewaunee County Schools will be working together to provide learning opportunities in many different career paths to students. This allows school districts the unique opportunity to provide a larger variety of coursework to meet students' academic and career goals that schools find hard to accomplish on their own.

Students who have an interest in career paths in Agriculture and Advanced Welding will have an opportunity to attend classes at Kewaunee High School as part of their daily Algoma academic schedule. Below is a list of potential courses that will be offered at Kewaunee High School for the 2016-17 academic year. Please see the provided course descriptions to determine if either of these areas would benefit your potential career pathway. For additional questions and/or concerns, please speak to Mr. Cochart or Mrs. Holloway.

AGRISCIENCE

FUNDAMENTALS OF AGRISCIENCE

1 semester .5 credit Grades: 9-12

This course will introduce students to the wide range of topics and opportunities in agriculture. This course will also clear up many of the misconceptions about agriculture and help students gain an understanding of FFA as well as SAE (supervised agricultural experience). This class is for anyone who would like to explore the world of agriculture.

INTRO TO ANIMAL SCIENCE

1 semester .5 credit Grades: 9-12

Prerequisite: Fundamentals of Agriscience

This course will introduce students to the field of Animal Science with emphasis on digestive systems and biosecurity. Topics of study will include various species of large and small animals as well as current issues in animal agriculture.

INTRO TO PLANT SCIENCE

1 semester .5 credit Grades: 9-12

Prerequisite: Fundamentals of Agriscience

This course will introduce students to the broad field of Plant Science with emphasis on plant growth as well the process of photosynthesis and respiration. Students will grow plants using greenhouse production and aquaponics.

AGRICULTURAL BUSINESS (Offered 2017 – 2018 school year)

1 semester .5 credit Grades: 10-12

Prerequisite: Fundamentals of Agriscience or Intro to Business

This course introduces students to management practices and business principles in agriculture. Topics of study include: business planning, protection strategies, commodity market strategies, cooperatives, business structures, marketing, and agricultural legislation.

AGRICULTURAL TECHNOLOGY (Offered 2016 – 2017 school year)

1 semester .5 credit Grades: 10-12

Prerequisite: Fundamentals of Agriscience

This course introduces students to the application of technology in agriculture with emphasis on GPS mapping and equipment control systems. Students will also explore the use of alternative fuels as well as technology development in agriculture.

CROP MANAGEMENT

1 semester .5 credit Grades: 10-12

Prerequisite: Intro to Plant Science

This course provides students with an understanding and skills in basic crop production and soil management. Forage crops, grain crops, soil, soil fertility, soil conservation, and soil testing are studied in depth.

DAIRY SCIENCE

1 semester .5 credit Grades: 10-12

Prerequisite: Intro to Animal Science

This course allows students to develop skills and understanding of dairy cattle and the dairy industry. Topics include feeding for profit, health and comfort of dairy cattle, housing and facilities for dairy cattle, and business management of the dairy herd for production and profit.

FIELD TO TABLE PROCESSES (Offered 2017 – 2018 school year)

1 semester .5 credit Grades: 10-12

Prerequisite: Intro to Plant Science

This course is designed for students to explore the processes and techniques that are used to take raw products, including garden, dairy, and meat products, and process them into items that are desired by consumers. Students will work extensively in the greenhouse and school garden to produce the products they will then process and prepare for consumption.

GARDENING & LANDSCAPING (Offered 2016 – 2017 school year)

1 semester .5 credit Grades: 10-12

Prerequisite: Fundamentals of Agriscience

This course introduces students to the basic principles of gardening and landscaping. Students will learn methods of residential landscaping and yard maintenance as well as the methods for planting and maintaining a home garden.

NATURAL RESOURCES & WILDLIFE

1 semester .5 credit Grades: 10-12

Prerequisite: Intro to Animals

This course provides students with an introduction to the different species of wildlife and the management of wildlife habitats that will maintain wildlife populations. Topics studied include endangered species, hunting and hunting ethics, taxidermy, small and large mammals, game birds, water fowl, and wild fisheries.

COMPANION ANIMALS AND EQUINE CARE (Offered 2017 – 2018 school year)

1 semester .5 credit Grades: 11-12

Prerequisite: Fundamentals of Agriscience

This course is designed for students to learn the basic care of various types of companion animals, large and small.

Dogs, cats, reptiles, hamsters, guinea pigs, and horses are among the species that will be studied. Nutrition, care, health, equipment, and housing of a variety of companion animals will also be examined. This class is for anyone who has or will consider having a pet in the future.

VETERINARY SCIENCE

1 semester .5 credit Grades: 11-12

Prerequisite: Intro to Animal Science

This course will provide students with a basic understanding of veterinary principles and practices. Topics include the structure of various body systems, diagnosis of problems within various body systems, prevention of diseases, and veterinary surgery.

LIVESTOCK MANAGEMENT (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Intro to Animal Science

This course is designed for students to study livestock selection, breeding management, herd health, young stock management, selection, operation and maintenance of milking, feeding, ventilation and manure handling systems, farm buildings, feed storage and farm business analysis.

ORGANIC SOILS, NUTRIENTS, & COMPOSTS (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Intro to Plant Science

This course is designed for students to study how healthy soil is the foundation of sustainable farming and gardening; how to build robust soil through organic matter, cultivating beneficial microorganisms, and nutrient cycling. Students will also explore composting techniques and organic fertilizer sources.

WORLD FOODS & AGRICULTURE (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Intro to Plant Science

This course is designed for students to explore the climate, soils, and food of other ecosystems and cultures around the world. Students will examine the relationships between people and the diversity of their land, food, animals, and local traditions.

TECHNOLOGY EDUCATION

BLUEPRINT READING I- WELD SYMBOLS (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Blueprint Reading 1 provides the opportunity for students to develop the knowledge and understanding of orthographic projection, sketching, dimensioning, section and auxiliary views, structural shapes, metric conversation and interpretation of fabrications from prints.

Weld Symbols provides the opportunity for students to develop the knowledge and understanding of welding symbols AWS and ISO, weld joint nomenclature, and welding joint geometry. NOTE: This course may be taken concurrently with Math 1 Trades.

MATERIAL CUTTING APPLICATIONS- SHIELDED METAL ARC WELDING I (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Blueprint Reading 1-Weld Symbols; Math 1 Trades

Material Cutting Applications provides the opportunity for students to develop the knowledge, skill, process, and understanding for the visual inspection of cut edges, manual and machine oxy-fuel gas cutting, air carbon arc cutting, plasma arc cutting, and mechanical cutting methods.

Shielded Metal Arc Welding 1 provides the opportunity for students to develop the knowledge, skills, process and understanding of surfacing welds in the flat position, fillet and groove welds on plain carbon steel. NOTE: This course may be taken concurrently with Math 1 Trades.

Course Fee: \$10 Project Fee: \$30

GAS METAL ARC WELDING I- FLUX CORE ARC WELDING 1 (Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Blueprint Reading 1-Weld Symbols; Material Cutting Applications-Shielded Metal Arc Welding 1

Gas Metal Arc Welding 1 provides the opportunity for students to develop the knowledge, skills, process and understanding of welding in the flat and horizontal positions on plain carbon steel.

Flux Core Arc Welding 1 provides the opportunity for students to develop the knowledge, skill, process and understanding of surfacing welds in the flat position as well as fillet and groove welds in the flat and horizontal position using gas shielded flux cored arc welding. Weld quality will be discussed, but this course is only used to understand the basics of the FCAW process.

Course Fee: \$10 Project Fee: \$30

GAS TUNGSTEN ARC WELDING 1- INDEPENDENT METALS FABRICATION

(Transcribed Credit Course)

1 semester .5 credit Grades: 11-12

Prerequisite: Gas Metal Arc Welding 1-Flux Core Arc Welding 1

Gas Tungsten Arc Welding 1 provides the opportunity for students to develop the knowledge, skill, process and understanding of surfacing welds in the flat position as well as fillet and groove welds in the flat and horizontal position using gas shielded flux cored arc welding. Weld quality will be discussed but this course is only used to understand the basics of the GTAW process.

Independent Metals Fabrication is for students who choose to continue their education in metals manufacturing within an independent program. Skills in welding, machining, CNC programming and operation, and repair will be developed and utilized to design, plan, and fabricate projects of their choosing, with instructor approval.

Course Fee: \$10 Project Fee: \$20 plus cost of tungsten electrodes and project materials