



VALDERS HIGH SCHOOL

COURSE DESCRIPTION GUIDE

Grades 9-12

2017-18

Valders Area School District
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This document contains the description of courses which are offered at Valders Area High School to be used in planning your program of studies. Courses that are designated as full year courses are to be considered commitments to complete both semesters of course work.

**Course fees that are listed in the book reflect fees charged from the past school year and are subject to change based upon the decisions of the VASD School Board.*

The Board of Education does not discriminate on the basis of any characteristic protected under State or Federal law including, but not limited to, religion, race, national origin, sex, disability, age, color, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, physical, mental, emotional, or learning disabilities, or genetic information in its programs, activities, or employment.

College and Career Readiness

ACP and PI 26 Administrative Rule

Academic and Career Planning, or ACP, is a student-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

Our mission is to empower all students to travel the road to adulthood through education and training to careers.

Our vision is that ACP will provide our students with meaningful and supportive adult relationships, the ability to adapt to opportunities and challenges, and to encourage students to own their personalized journey to successful lives.

The ACP Model that Wisconsin has adopted includes 4 stages:



Each student will travel through these stages each year by completing a series of portfolio documents that will be required for graduation. Students will meet with their advisor during ACP time to complete the portfolio documents. Advisors will have meaningful conversations to help guide students through the ACP process. Our high school counselor will meet with students during freshman and junior Viking Visits to provide additional support toward career and academic readiness.

Valders believes that:

1. All students should be ready for college and/or career by the time they graduate from high school.
2. All work is valuable work.
3. Success is determined by each individual student rather than the degree earned.
4. Finding a career is a journey that continues through a lifetime.

Wisconsin's Sixteen Career Clusters

<p>Agriculture, Food and Natural Resources</p> <ul style="list-style-type: none"> Agribusiness Systems Animal Systems Environmental Service Systems Food Products and Processing Systems Natural Resources Systems Plant Systems Power, Structural and Technical Systems 	<p>Hospitality and Tourism</p> <ul style="list-style-type: none"> Lodging Recreation, Amusements and Attractions Restaurants and Food/Beverage Services Travel and Tourism
<p>Architecture and Construction</p> <ul style="list-style-type: none"> Construction Design/Pre-Construction Maintenance/Operations 	<p>Human Services</p> <ul style="list-style-type: none"> Consumer Services Counseling and Mental Health Services Early Childhood Development and Services Family and Community Services Personal Care Services
<p>Arts, Audio/Video Technology and Communications</p> <ul style="list-style-type: none"> Audio and Video Technology and Film Journalism and Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts 	<p>Information Technology</p> <ul style="list-style-type: none"> Information Support and Services Network Systems Programming and Software Development Web and Digital Communications
<p>Business Management and Administration</p> <ul style="list-style-type: none"> Administrative Support Business Information Management General Management Human Resources Management Operations Management 	<p>Law, Public Safety, Corrections and Security</p> <ul style="list-style-type: none"> Correction Services Emergency and Fire Management Services Law Enforcement Services Legal Services Security and Protective Services
<p>Education and Training</p> <ul style="list-style-type: none"> Administration and Administrative Support Professional Support Services Teaching/Training 	<p>Manufacturing</p> <ul style="list-style-type: none"> Health, Safety and Environmental Assurance Logistics and Inventory Control Maintenance, Installation and Repair Manufacturing Production Process Development Production Quality Assurance
<p>Finance</p> <ul style="list-style-type: none"> Accounting Banking Services Business Finance Insurance Securities and Investments 	<p>Marketing</p> <ul style="list-style-type: none"> Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales
<p>Government and Public Administration</p> <ul style="list-style-type: none"> Foreign Service Governance National Security Planning Public Management and Administration Regulation Revenue and Taxation 	<p>Science, Technology, Engineering and Mathematics</p> <ul style="list-style-type: none"> Engineering and Technology Science and Math
<p>Health Science</p> <ul style="list-style-type: none"> Biotechnology Research and Development Diagnostic Services Health Informatics Support Services Therapeutic Services 	<p>Transportation, Distribution and Logistics</p> <ul style="list-style-type: none"> Facility and Mobile Equipment Maintenance Health, Safety and Environmental Management Logistics Planning and Management Services Sales and Service Transportation Operations Transportation Systems/Infrastructure Planning, Management, and Regulation Warehousing and Distribution Center Operations

Graduation Requirements

Graduation Requirements 25.5 total credits

English	4.0 cr
Math	3.0 cr
Science	3.0 cr
Social Science	3.0 cr
Health	0.5 cr
Physical Ed.....	1.5 cr*
Elective	10.5 cr

General Planning Guide Requesting Courses for 2017-2018		
Credits	Semester 1	Semester 2
English		
Math		
Science		
Social Studies		
Elective		
Elective		
Elective		
Elective		
Alternates:		
1.		3.
2.		

During each Viking Visit students will discuss future aspirations, review career assessments, and plan courses according to their desired career. Valders continues to incorporate the **Wisconsin Career Clusters** into the course selection process. These tools (Career Clusters, Career Pathways, and Programs of Study) are ways for students to group their required courses and electives into a coherent sequence in preparation for colleges, graduate schools, and/or proceeding directly into the workplace. By connecting education with future goals, students are motivated to work harder and enroll in more rigorous courses.

When choosing courses remember:

- Students can choose only one study hall per semester.
- Pick two or three alternate choices.
- Know which courses are year-long versus semester.
- All EA, Work-Study, and Independent Study paper work needs to be completed prior to enrollment.
- Only one PE per each semester.
- *PE credits should be taken over a three-school year period.

College Credits While in High School


Advanced Placement Courses and Advanced Placement Exam – AP courses offer **4 –year college** level course work to students in high school. This means that the pace of the course and independent learning expectations are increased. At the end of the year, students can choose to take Advanced Placement Exam(s). Students may take any AP Exam they choose; provided they pay the testing fee. A complete list of all AP exams can be found on the College Board website. Students can score between a one and a five. Typically a score of three or better will be accepted by universities as a credit. Each university will award credits differently.


Valders will proctor any AP Exam* and offers the following AP courses:

- Calculus AB
- Language and Composition
- Literature and Composition

**Please contact the school counselor if interested in advanced enrichment opportunities that occur over and above the regular school day.*


Transcripted courses

 denotes that this is a **technical college** level course that is taught by a Valders’ High School teacher. After completing this course, students may receive *both* high school and technical college credit. This means that a student will receive both a Lakeshore Technical College transcript with GPA credit and a Valders transcript with GPA credit.

 **GREEN BAY** Students enrolled in Spanish V have the opportunity to participate in a concurrent enrollment program through UW-Green Bay. In this program students take the high school class and concurrently receive college credits. Students enroll in the course, pay a substantially reduced tuition fee and upon successful completion of the course (A or B), students receive 3 college credits and an additional 11 retroactive credits. The details and information for this course will be presented at the end of Spanish IV.

Valders offers:

High School Course	Course
Accounting I	LTC: Office Accounting – 3 cr.
Legal Writing & Law Office Management	LTC: Intro to Paralegal/Legal Ethic – 3cr.
Math with Business Applications	LTC: Math with Business Applications – 3cr.
Metals Fabrication	LTC: Welding Math—1 cr.
Technical Emergency Management	LTC: Emergency Management – 2 cr.
Spanish V	UW Green Bay – 3 or more

Advanced Standing Courses –  This is a **technical college** level course taught by a Valders’ High School teacher. If a student successfully *completes the course with a B or better* for the semester, he/she will be granted credit for the college course upon successful enrollment at any technical college*. If these courses are required for the student’s major, the student will not have to take the LTC or technical college course. If the courses are not required for the major, the student can use these credits to fulfill elective credits.

Valders offers:

High School Course	LTC Course
Intro to Engineering yr 1	Developing Manufacturing Skills – 3cr Welding Intro – 1 cr IM Welding Intro – 1 cr
Intro to Engineering yr 2	CAD 1 – 1cr Welding Fabrication – 2 cr. IM W2lding Fabrication – 2 cr.
Intro to College Writing	Intro to College Writing (*This course required @ LTC for those with ACT below a 17. No LTC credits are issued but 3credit-class does not have to be taken at LTC if VHS course passed with at least a “B”.)
Microsoft I	Excel 1 – 1 cr Word 1 – 1 cr
Sports and Entertainment Marketing	Principles of Marketing – 3cr.

Valders Area High School

2017-2018 Quick Glance Course Offerings with Grade Level

AGRICULTURE EDUCATION

Adv Horticulture.....	11-12
Agribusiness	11-12
Food Science/Ag Technology.....	9-12
Horticulture	10-12
Landscape Management	9-12
Large Animal Science	10-12
Natural Resources Mgmt	9-12
Veterinary Science.....	9-12

ART

Art Methods.....	9-12
Art 2D-Draw/Paint	9-12
Art 3D-Ceramics/Metals.....	10-12
Art 4 JR/SR-Graph/Digit Photo.....	11-12
Art 5 Advanced Art/Ind Study.....	11-12

BUSINESS EDUCATION

Accounting I.....	10-12
Accounting II.....	11-12
Adv Spreadsheet & Database	10-12
Business Cents.....	9-12
Intro to Business	9-12
Microsoft I.....	9-12
Microsoft II.....	9-12
Personal & Business Law	10-12
Sport & Entertainment Marketing	10-12

COMPUTERS

Computer Science I.....	10-12
Computer Science II Java Program.....	11-12
Video Game Programming	10-12

ENGLISH

Adv Composition.....	11-12
AP Language and Composition	11-12
AP Literature and Composition	12
Creative Writing	10-12
Dramatic Literature.....	10-12
English 9.....	9
English 10.....	10
English 11.....	11
English Foundations	12
Intro to College Writing	12
Legal Writing & Law Office Mgt... ..	11-12
Novels.....	11-12
Publications	9-12

FAMILY/CONSUMER SCIENCES

Child Development	10-12
Clothing and Textiles I	9-12
Clothing and Textiles II	9-12
Culinary Arts-Bakeshop Principle	9-12
Culinary Arts-Professional Cook....	10-12
Culinary Foundations.....	9-12
Intro to Health Occupations.....	10-12
Personal Resource Management	11-12

FOREIGN LANGUAGE

Spanish I.....	9-12
Spanish II.....	9-12
Spanish III	10-12
Spanish IV	11-12
Spanish V.....	12

MATH

Algebra I.....	9-12
Algebra II.....	9-12
AP Calculus AB.....	12
Geometry	9-12
Integrated Geometry/Algebra	10-12
Intro to Probability and Statistics....	11-12
Math with Business Applications	12
Pre-Algebra.....	9-11
Precalculus.....	11-12

MUSIC

A Cappella Choir.....	10-12
Concert Band.....	9
Kvinne Kor/Mixed Chorus	9-12
Marching Band Elective	9-12
Norsemen/Mixed Chorus.....	9-12
Symphonic Band.....	10-12

PHYSICAL EDUCATION/HEALTH

Health 9	9
Individual Activities	10-12
Lifetime Fitness	10-12
Physical Education 9.....	9
Pro Lifeguard Certification.....	10-12
Strength & Conditioning.....	9-12
Team Sports.....	10-12

SCIENCE EDUCATION

Bio Concepts of the Environment... ..	11-12
Biology I.....	10
Biology II.....	11-12
Biology-Human Anatomy.....	11-12
Biotechnology	10-12
Chemistry I.....	10-12
Chemistry II.....	11-12
Physics	12
Science 9.....	9

SOCIAL STUDIES

Current Economics Issues.....	11-12
Government 10	10
History of Human Behavior	11-12
Sociology	11-12
US History 10	10
US History 11	11-12
World History 9	9

TECHNOLOGY EDUCATION

Advanced Wood Technology	10-12
Aviation	10-12
CAD Design	9-12
CAD II	9-12
Communication Tech.....	9-12
Construction Technology.....	9-12
Digital-Electronics	10-12
Electronics Fundamentals	10-12
Intro to Engineering	11-12
Introduction to STEM.....	9-12
Manufacturing Technology.....	10-12
Metal Fabrication	10-12
Residential Construction	10-12
Robotics Fundamentals.....	10-12
Technical Emergency Mgmt.....	11-12
Wood Technology	9-12

OTHERS

Non-Credit Teacher Assistant.....	12
Work Experience	12
Youth Apprenticeship	11-12
Youth Options.....	11-12

Course fees that are listed in this book reflect fees charged from the past school year and are subject to change based upon the decisions of the VASD School Board.

Courses designated as full year courses are commitments for both semesters of course work. We will not drop a student from a full year course at the end of semester, unless the drop is initiated by school administration.

AGRICULTURE

Agribusiness (11-12; Year-long Course)

This course is recommended for students who wish to become knowledgeable in the areas of business operation, management, and economics. The management and financial topics are valuable to students entering any occupational area. Areas of study include career opportunities, history of marketing, types of marketable goods, market functions, supply and demand, record keeping, cooperative business management, taxes, insurance, financial records and analysis, legal issues, employer-employee relations, and farm/non-farm business planning. Students will serve as The Board of Directors for The Greenhouse Business and be responsible for stock sales, records and dividends.

Food Science/Agriculture Technology (9-12; Semester Course)

This laboratory-based, semester course will focus on the application of technology to the agricultural industry. Students will work in both classroom and greenhouse labs. Topics will include food science, processing and safety, plant technology and cloning, along with an overview of biotechnology. The course will also include computer technology, FFA, recordkeeping, and current issues and careers in agriculture.

Horticulture (10-12; Semester Course)

This laboratory-based semester course is for any student interested in horticulture as a career or hobby. Areas covered will include basic plant science, flowers, bedding plants, vegetables, gardening, and plant management. Greenhouse operation will be a major component of the semester. This includes plant selection, propagation, nutrition, pest control, and marketing. Computers, careers, and safety will be integrated throughout the semester.

Advanced Horticulture (11-12; Semester Course)

Prerequisite: Horticulture

This one-semester course will deal with advanced concepts in horticulture and greenhouse management. Students will develop and master concepts that are introduced in horticulture along with additional material that is introduced in this class. Topics will include marketing and production of indoor and outdoor foliage plants, plants for food, potted plants, fruit crops, cut flowers, and hydroponics. Emphasis will be on hands-on education using computers, the greenhouse, and lab facilities. Students will be responsible for day-to-day operation of the greenhouse.

Landscape Management (9-12; Semester Course)

This semester-long course deals with the design, management and maintenance of landscaping and its related fields. Topics include career opportunities, site development, landscape design, construction materials, plant material usage, economic analysis, and landscape maintenance. Emphasis will be on hands-on education using computers, the greenhouse, and lab facilities.

Large Animal Science (10-12; Semester Course)

Large Animal Science is a course for the student wanting to explore the science of animal management. The course includes a study of the meat processing industry, evaluation of animals, animal welfare vs. animal rights, animal health, nutrition, reproduction, behavior and genetics. Large Animal Science will also include an overview of the following animals and the appropriate management for each: beef, dairy, swine, sheep, goat, poultry, and horse. Current issues, career opportunities, and computer applications related to this course will be explored.

Natural Resources Management (9-12; Semester Course)

Natural Resources Management focuses on natural resources and wildlife issues. Topics include career opportunities, forestry, aquaculture, efficient use of our natural resources, ecology, wildlife management, water and air quality. Students in this course will concentrate on the preservation of wildlife, the habitat they live in, and the problems concerning them. At the conclusion of this course, students will be able to identify various trees and understand their management; explain problems of forests such as fire, health, insects, disease, and harvest; identify big game, small game, birds, fish, and endangered species of Wisconsin. Instruction will be a combination of classroom, laboratory, and use of the aquaculture room. Several hands-on projects are part of this class including taxidermy and fish production products.

Veterinary Science (9-12; Semester Course)

Veterinary Science is a specialty hands-on course. It encompasses the science and study of domesticated animals such as rabbits, dogs, cats, rodents, reptiles, fish, and birds. In this course, students will also be trained with lab and computer activities to become a veterinarian, veterinarian assistant, and veterinarian technician. Proper care, management, nutrition, and breeding of domesticated animals will also be discussed along with maintenance of the aquaculture tank.

ART, MEDIA and DESIGN COURSES

Art Methods (9-12) Course Fee \$5.00

Art Methods is a fun and explorative **one year course** designed to introduce students to basic and intermediate concepts and skills in Art. This course is required for students, who wish to continue in the Art program and have not taken both 7th and 8th grade art. This course will provide hands-on experience in drawing, painting, printmaking, design, ceramics, and mixed media. Upon completion, the student will have a solid foundation and adequate preparation for a full year of Art 2D or Art 3D.

Art 2D-Drawing/Painting (9-12) Course Fee \$5.00

Prerequisite: Art Methods or completion of both 7th and 8th grade Valders Middle School Art.

Art 2D is a **one year course** in which fine Art experiences are provided to students who possess art skills and interest in the area of **2 dimensional arts**. Emphasis is placed on developing visual awareness, technical skills and creativity. A variety of drawing, painting, printmaking, and digital photography media provides a foundation for continued art study. Computer technology is used for research, documentation of a digital portfolio, and creative means through graphic software. Projects exhibiting an understanding of the elements and principals of art and design are emphasized.

Art 3D-Ceramics & Metals (10-12) Course Fee \$10.00

Prerequisite: Art Methods or completion of both 7th and 8th grade Valders Middle School Art.

Art 3D is a **one year course** in which fine Art experiences are provided to students who wish to explore in the area of **3 dimensional arts**. Emphasis is placed on hands-on manipulation in the medium of clay, including hand building, slab making, relief design and surface textural design. New skills introduced will include slump molding, vessel forming and the use of the pottery wheel to create functional symmetrical forms. Art metals and jewelry design is explored. This class will then introduce the students to sculpture in creating a stone carving, and a glass and tile mosaic. The course will wrap up all projects through learning about the different types of glazing and completing all surface applications.

Art 2D and Art 3D can be taken in the same year, and may also be taken out of order.

Art 4 Junior/Senior Art-Graphics & Digital Photography (11-12; Grade 10 w/consent of the Instructor) Course Fee \$10.00

Prerequisite: Art 2D and Art 3D.

Art 4 is for Junior and Senior high school students who are interested in advancing to job-related art fields from graphic art to fine art. This **one-year course** explores units in graphic design and digital photography using Bamboo Interactive Pen and Tablets with software including Adobe Photoshop Elements and Corel Draw. This course also explores oil painting on a canvas, and throwing a pot on a potter's wheel, along with other computer art and fine art experiences.

Advanced Art/ Independent Study (11-12) Course Fee \$10.00

Prerequisites: Art 2D, Art 3D, Art 4 and consent of the Instructor

This advanced course is designed for the serious art student **ONLY**. Art 5/Advanced Art will be offered each semester. Emphasis will be placed on working in themed units, as well as refinement of compositional skills. Independent studies are arranged through contracts between the instructor and the student. Students explore a variety of two- and three-dimensional media with an emphasis on technical excellence as well as creative self-expression. Artistic interpretation of direct observation, personal insights, ideas, emotions and concepts are the focal point of this course as students learn to think creatively and actively problem solve in their creation of visual images. It is assumed that this student is highly **motivated, a self starter, and requires minimal supervision**. Students are required to successfully complete an assigned portfolio piece.

*Creating a **digital portfolio** is required of all Advanced Art students.

*A student may acquire as many as nine semesters of Advanced Art credits.

ART, MEDIA & DESIGN COURSES

Quick Glance Overview

Students electing art courses must take 7th and 8th grade Art or Art Methods before they are allowed to take more advanced art courses.

Art Methods (9-12) Semester 1 - Drawing, Painting, Design
Semester 2 - Ceramics, Printmaking, Mixed media

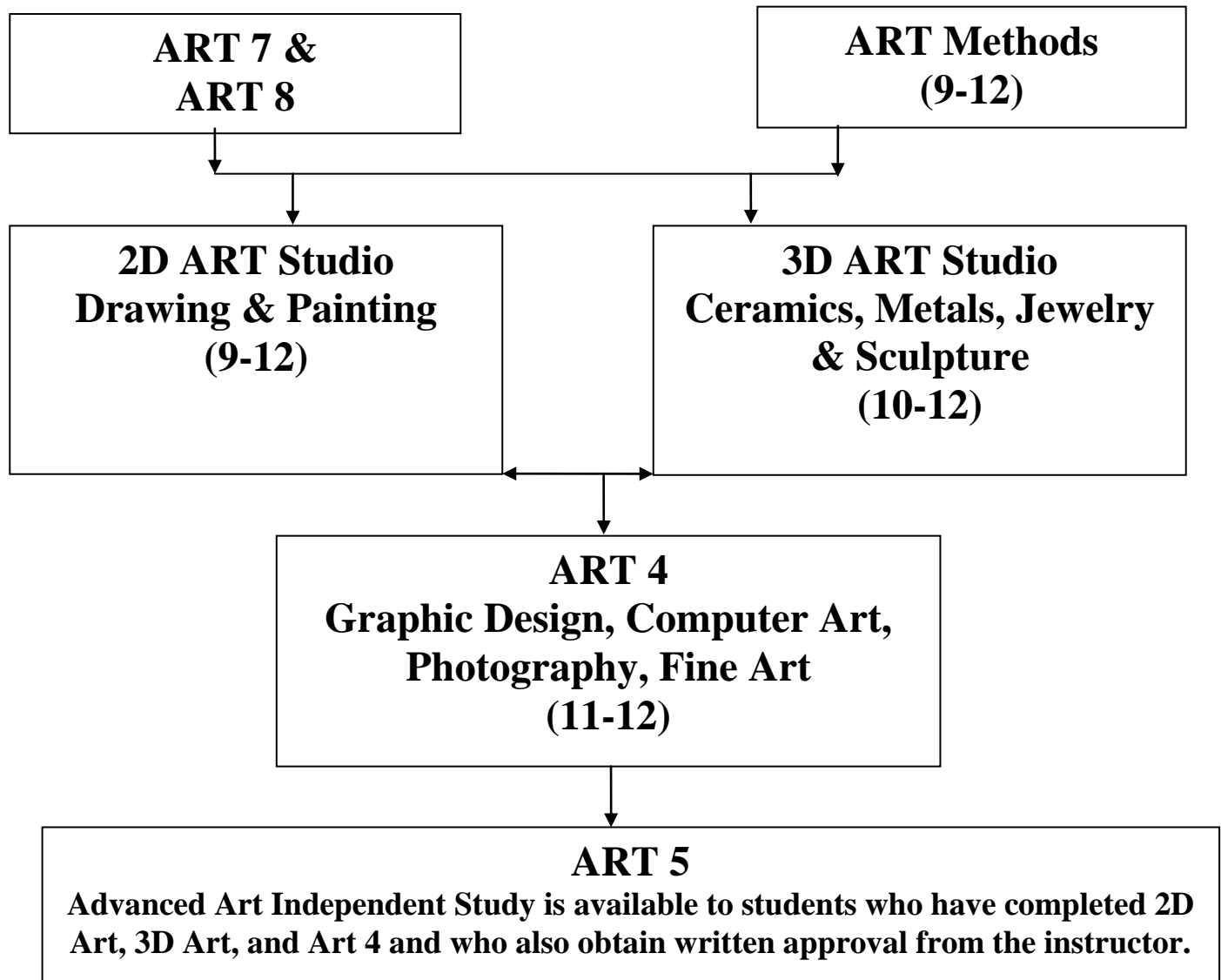
Art 2D - 2 Dimensional Art (9-12) Semester 1 & 2 - Drawing, Painting, Printmaking,
Digital Photography, Graphic Design

Art 3D - 3 Dimensional Art (10-12) Semester 1 - Ceramics, Glazing, Art Metals
Semester 2 - Sculpture, Leather, Mosaic

Art 4 - Junior/Senior Art (11-12) Semester 1 – Graphic Design, Painting, Digital Photography
Semester 2 – Computer Arts, Fine Arts

Art 5 - Advanced Art (11-12) - Advanced Independent Study

***All art classes are one year courses, but with pre-approval of the art instructor and administration, courses can be taken by semester due to special circumstances of scheduling.**



BUSINESS EDUCATION

Accounting I (10-12; Year Long Course) Course Fee \$20.00

Accounting positions are expected to grow 20% over the next ten years. Whether planning on being a truck driver, an artist, a manager, a business owner, farmer, architect, engineer or other administrative position accounting will be used. Understanding the flow of money and assets in a business is very important. In addition, if planning to take any business course in a two or four-year college, accounting will be among the first entry-level courses taken. Learning the fundamentals of accounting in high school will better prepare one for the fast paced rigor of college. If you like working with numbers, you will enjoy this class. Suggested follow-up courses include: Accounting II, Intro to Business, or/and Personal & Business Law.

Accounting II (11-12; Year Long Course) Course Fee \$20.00

Prerequisite: Accounting I

This course is open to students who have successfully completed Accounting I. Often students will complete this course in an independent study environment. Partnerships, corporations, departmentalized businesses, and cost and management accounting are among the topics covered. Students will use computers in their application of the same accounting principles they used in manual accounting. In addition, students learn electronic spreadsheet software. Students gain marketable skills for jobs ranging from specialized accounting clerks to full-charge bookkeepers. Suggested follow-up courses include: Intro to Business, Business Cents.

Advanced Spreadsheet and Database for Science and Business (10-12; Semester Course)

Excel and Access will be the two-featured programs in this class. Students who plan to take advanced science courses or would like to learn advanced features of Excel and Access would benefit from this class by learning how to construct line, scatter and bar graphs. Students will write advanced equations using sine/cosine in degrees as well as create a database, use forms to enter information, and create queries to find information in the data. This class is an excellent follow-up to Microsoft Office I or II. Suggested follow-up courses: advanced science courses, Accounting I, and Introduction to Business.

Business Cents (9-12; Semester Course)

This course explores a variety of personal financial activities presented from a business perspective. Anyone interested in personal financial management or becoming a manager, working in the banking or finance world would benefit from this class. Students consider and learn business skills to maintain a checkbook and the process of granting credit and credit cards. This is done through the perspective of the banking industry. Students will learn how decisions are made to determine interest rates, mortgage loans, and other services are topics examined in the course. This course is relevant today as the fastest growing sector of the economy is start-up small businesses. Students interested in finding out more about the financial side of business would benefit from this class. Suggested follow-up courses include: Accounting I, Accounting II, and Introduction to Business.

Introduction to Business (9-12; Semester Course)

Students interested in management and entrepreneurship will enjoy this class. You will find out about the world of business and have the opportunity to actually start a business and run the business during class. Units covered during the course include advertising, marketing, writing a business plan, business and the economy, international business, banking, consumer rights, consumer credit, technology in business and personnel management. Suggested follow-up courses include: Personal & Business Law and Accounting I.

Microsoft I (9-12; Semester Course)

Being able to use Microsoft programs is a prerequisite for almost all jobs. Over 70% of jobs posted on “Indeed.com” require Microsoft Office skills. This first semester course acquaints students with the most popular computer program including word processing, spreadsheet, and PowerPoint of the Microsoft Office Suite. Topics to be covered include: formatting and editing of documents in word processing, and spreadsheets; file management. Students are able to test and earn **Industry Standard Certifications**. These can be taken with the student and added to their resume skills section as well as be job interview topic. The tools learned in this course are used daily in the outside work place and by college students completing their course work. This course is helpful prior to taking the Advanced Composition course. Suggested follow-up courses include: Microsoft II, Personal & Business Law, and Introduction to Business.

Microsoft II (9-12; Semester Course)

Prerequisite: Microsoft I

Not only being able to use Microsoft programs, but use them well is a skill sought by employers. This **second semester course** is offered to emphasize advanced technologies in word processing and spreadsheet applications of Microsoft Office. Topics covered include: advanced file management, labels, templates, graphics, charts and graphs, importing and exporting data, and creating a web page. An advanced unit on multimedia presentations is also included. The tools learned in this course are intended to enable students to work at entry-level positions in business. Suggested follow-up courses include: Advanced Spreadsheet & Database for Science & Business.

Personal & Business Law (10-12; Semester Course)

Students interested in law enforcement such as police officer, corrections officer, social worker, lawyers, paralegals, business owners and citizens of the United States interested in knowing their rights would benefit from this course. This course is designed to acquaint students with the basic legal principles relevant to their roles as citizens, consumers, and employees. The content includes the origin of law, ethics in law, kinds of laws, the court system, contracts for buying and selling goods, using credit, employer-employee relations, and property law-including landlord-tenant relations. Case studies and guest speakers are used throughout the course. This course provides relevant information for the future. Suggested follow-up courses include: Introduction to Business and Business Cents.

Sports and Entertainment Marketing (10-12; Semester Course)

The marketing and business field is seeing exponential growth in the sport and entertainment industry. Now a \$480 billion industry, it has become a dominant presence not only in the U.S., but also in the rest of the world. The sports and entertainment industry encompasses everything from movies, music, television, and computer games to home videos, toys, and clothing lines, as well as theme parks and spectator and recreational sports. Radio, the internet, theater, resorts and other activities associated with tourism also fall into this category. Students will learn the fundamental principles and concepts identified with sports and entertainment marketing, and develop skills through the application of marketing principles in this industry.

COMPUTERS

Computer Science I (10-12; Semester Course)

Prerequisite: *Completion of Algebra I with a C or above*

This course includes instruction in learning Alice programming language. The software for the course is free to download and is intended to be an easy transition into computer programming. Students will learn to manipulate objects and take control of what they do in a language that is similar to Java. Students completing this course successfully have a solid foundation on which to continue their study of computer science. Many college majors, especially engineering and math related majors, require computer programming courses for graduation and this course helps students become comfortable with the logical progression of computer programs. Students will learn that programming computers is not as difficult as they may have thought. Suggested follow-up course: Video Game Programming

Computer Science II Java Programming (11-12; Semester Course)

Prerequisite: *Completion of Computer Science I with a C or above*

This course will build on concepts from Computer Science 1. Students will learn the coding and syntax of the Java programming language which is widely used in development of computer apps including games. Students will work with Java to write programs that use variables and data types, conditional statements, looping structures, and arrays. Students will learn more about object-oriented programming concepts such as classes, objects, and methods.

Video Game Programming (10-12; Semester Course)

Prerequisite: *Completion of Computer Science I with a C or above*

This course builds on the concepts taught in Computer Science 1. Students will learn how to write their own software to create a **video game**. Students will be role playing a career as a video game programmer. As a member of a software writing team, students will interact with a virtual boss, mentor and co-workers. They will go through the planning stages, create fairly sophisticated 3D graphics and program the game. By the end of the course, students will have a video game or two that they can take home and play on their home computers. Students will become much better at problem solving throughout the course and may find that they have a future in the video game industry.

ENGLISH

English 9 (9; Required Year-Long Course)

This year-long required course introduces basic skills of grammar and literature. The year is divided into thematic units in which students develop vocabulary and reading skills, as well as continued instruction in grammar, mechanics, composition, research, and speech. The different forms of literature are reinforced: poetry, prose, drama, nonfiction, and novels.

English 10 (10; Required Year-Long Course)

This required course is a continued foundation course that expands on skills of composition, literature, speech, research, grammar, and vocabulary. Units are thematically based exploring a wide range of issues including the examination of truth, the exploration of careers, the definition of heroism, and a questioning of actions and consequences.

English 11 (11; Required* Year-Long Course)

This required course increases the complexity of composition, literature, speech, research, grammar and vocabulary. Units are based on literary periods and there is an emphasis on delineating and evaluating reasoning in seminal United States texts. There is a focus on group activity and higher level discussions.

Advanced Composition (11-12; Semester Course)

This is a preparatory course for college-bound students. The main focus of the course is to develop writing skills needed for college-level composition through an emphasis on grammar, vocabulary, documentation of compositions, and an independent research unit.

Advanced Placement Language and Composition (11-12; Year-Long Course)

Prerequisite: High proficiency on the Aspire test or ACT

This is a college-level course; the goal is to help students develop their skills in reading prose written in a variety of rhetorical contexts and become skilled writers who compose for a variety of purposes. Students will also fine tune the skills needed for persuasive/argumentative writing that is required for the ACT exam as well as the AP English Language and Composition Exam. With a score of a three or better, students may receive college credits for an English class in the UW system. *Juniors have the option to self-select this more rigorous class in lieu of English 11.

Advanced Placement Literature and Composition (12; Year-Long Course)

Students will explore various philosophies, genres, and styles of major authors. Each unit contains history of the period, biographical information on the authors, and literary selections. This is a college-level course; the goal is to help students analyze and appreciate literature verbally and through composition as well as prepare for the Advanced Placement Literature exam. With a successful exam score, students can earn between 3-5 college credits, dependent upon their score and the post-secondary school in which the student enrolls.

Creative Writing (10-12; Semester Course)

This course targets students' creativity, originality, and writing skills through a range of writing projects and journaling. Students will learn the elements of non-fiction, fiction, and poetry and write various compositions for each genre. Students will have the opportunity to share their work, compose individually, and work with other students.

Dramatic Literature (10-12; Semester Course)

Students will become familiar with dramatic literature and theater arts through the study of

various plays throughout history. Students will evaluate plays for literary merit and social significance and develop appreciation for theatrical performance. Performances include a monologue, a scene, and various performances for the elementary school including a children's story, bullying awareness skits, and a Christmas program.

English Foundations (12; Semester Course)

Prerequisite: Instructor Consent

This is a seniors-only English class designed for students who plan on entering the workforce or a technical college after high school. The course will include learning proper communication skills, informative writing, and reading for information. Participation in class discussion, small group work, and individual reflection are utilized often.

Legal Writing and Law Office Management (11-12; Semester Course)

Prerequisite: Showing high proficiency on the Aspire test or ACT

Students will explore the legal profession and the underpinnings of the federal and state government. Student writing will be strengthened by focusing on critical thinking skills that accompany good writing in relation to the legal profession. Students will research laws and write case briefs. Students will learn how to file a civil suit. Student will also learn law office management skills and the ethical decisions involved in the paralegal world. Students receiving a "C" or better in the class will receive a transcript from Lakeshore Technical College with GPA credit for *Paralegalism and Legal Ethics*.

Introduction to College Writing (12; Semester Course)

This senior-level English class is designed for students who have scored a 17 or below on the ACT exam; students who have scored an 85 or below on the Accuplacer; or students recommended by Grade 11 instructor who would benefit from more writing practice in order to be better prepared for post-secondary education. This course is offered in conjunction with Lakeshore Technical College. It introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. Students who earn a grade of at least a "B" will be exempt from the technical college remedial English course that would be required with an English ACT score of 17 or lower.

Novels (11-12; Semester Course)

This one-semester elective course emphasizes the study of a variety of classic and contemporary novels. Three areas of emphasis include improvement of reading comprehension, the development of reading appreciation, and the study of literary techniques. Students read assigned texts independently, and share their understanding through collaborative discussions, presentations, and written analysis.

Publications (9-12; Year-Long Course)

Course will not meet a college admissions English requirement.

This is a one-year, one-credit course designed to give students background and experience in the field of expository writing. Students learn how to work with information gained from primary and secondary sources. The class encourages the students in precision of language and the composition of factual and editorial articles. Mechanical skills are also reviewed. In addition, the students learn how to use technology for publication. The students are taught camera usage and camera etiquette. The primary purpose of the course is the publication of the school newspaper, *The Viking*, and the school yearbook, *The Valdris*.

FAMILY AND CONSUMER SCIENCES

Child Development (10-12; Semester Course)

Child Development emphasizes the responsibilities of the family in providing for the individual development and socialization of children. Students in this course will explore the significance of societal expectations and its impact on the relationships between parents and children. Through projects and engaging class discussions, students will explore important topics such as: human development throughout the lifespan, parenting in the context of today, pre-natal development and pregnancy, birth and delivery, and infancy.

Clothing and Textiles I (9-12; Semester Course) (*Note: Students must provide their own material.*)

Whether you are considering a career in the fashion industry, wanting to save money, or simply feel the urge to be creative, the basic sewing skills learned in this course will help you meet your needs. The skills introduced in this course will include such things as: identification of basic sewing equipment, machine operation and maintenance, purchasing and selecting patterns, fabrics and notions, fabric properties, clothing care, and careers in the clothing industry. Students will be creating "guided" projects that reinforce these skills.

Clothing and Textiles II (9 -12; Semester Course) (*Note: Students must provide their own materials.*)

Prerequisite: Clothing and Textiles I (Passed with grade of C or better)

Clothing and Textiles II focuses on individualized projects that build on the sewing skills practiced in Clothing and Textiles I. Skills introduced in this course will include: reading and interpreting sewing directions, advanced construction details, selecting garment patterns, working with a variety of specialty sewing materials and tools, craft sewing, and quilting techniques. Along with these projects, students will explore career opportunities in the clothing and textiles industry.

Culinary Arts Foundation (9-12; Semester Course) *Course Fee \$15.00 (Formerly Foods & Nutrition)*

This course is designed for students desiring to broaden their knowledge of BASIC food preparation principles. Areas of concentration include: analyzing the effects of psychological, cultural and social influences on food choice; developing an awareness of food-related careers and employers; food safety practices; common kitchen tools and utensils; recipe use; kitchen measurement; knife skills; and developing food preparation methods for a variety of foods.

Culinary Arts II – Bakeshop Principles (9-12; Semester Course) *Course Fee \$15.00*

Prerequisite: Foods & Nutrition or Culinary Arts Foundation (Passed with grade of C or better)

This course builds on concepts previously learned in Culinary Arts Foundation. Food science principles will be integrated and applied throughout the entire semester to explain the importance of proper BAKING techniques. Areas of concentration include: developing an increased awareness of food related careers and employers; an introduction to professional food safety and sanitation protocols; as well as, exploring the use of chemical, biological, water, air, and steam as leavening agents in the bakeshop.

Culinary Arts III – Professional Cooking (10-12; Semester Course) *Course Fee \$15.00*

Prerequisite: Two Semesters of Prior Culinary Arts Courses (Passed with grade of C or better)

This course is designed for students who have an interest in exploring the numerous career opportunities in the food service industry. This course will include classroom instruction to develop food production and service skills, as well as MANY lab opportunities to rehearse foodservice management, restaurant standards/regulations and laws, menu planning and creation, food costing, professional food preparation techniques, and protocols to ensure the enjoyment of food by others.

Introduction to Health Occupations (10-12; Semester Course)

This course is designed for students interested in pursuing health-related careers. Students will explore many health careers and develop basic skills common to all health occupations. Topics to include: History of healthcare, health care delivery systems, legal and ethical roles and responsibilities of health care workers, introduction to medical terminology, effective communication skills for the health care environment, medical math, vital signs, and infection control.

Personal Resource Management (11-12; Semester Course)

The focus of this course will be to equip students with the skills they will need to manage their life after graduation. Topics will include: techniques for successful career planning/preparation, preparing for post-secondary school, employee income and benefits, optional and required pay deductions, federal and state income taxes, preparing personal budgets, understanding contract responsibilities, identifying ways to save, benefits and risks of lending and credit use, identity protection, selecting and financing housing options (renting and home buying), car buying, cost related to life decisions (marriage, children, divorce, death), and the importance and expense of insurance.

FOREIGN LANGUAGE

Students beginning foreign language study should keep in mind that more than two years of language study is necessary to approach fluency and will be helpful in the global job market.

College bound students should check admission and graduation requirements of the college they plan to attend. Some colleges require a number of foreign language credits to be admitted and others require students to demonstrate a proficiency in a foreign language in order to graduate with certain degrees. More years of language study at the high school level offer the best chance of demonstrating proficiency, fulfilling the university requirements and potentially receiving retroactive credits at the university level.

Students should plan their foreign language study to be continuous with no breaks between courses. Spanish II should be taken in the year following the completion of Spanish I and Spanish III in the year following the completion of Spanish II and so on.

A grade of C or better must be earned in each level of Spanish to be able to take the next level of the language.

Spanish I (9-12; Year Long Course) Workbook *fee \$17.50 (Workbook is used in Spanish I and Spanish II)*

Spanish I is primarily a conversational class offered to all students in grades 9-12. It is strongly recommended that the student have at least a solid overall "C" average in English before beginning a foreign language. Basic grammar concepts are learned and practiced in addition to vocabulary. A Spanish textbook and workbook provide the grammatical basis for the class. Culturally related activities involving customs of Spanish speaking countries such as songs and holidays are also included.

Spanish II (9-12; Year Long Course) *Continuation of workbook from Spanish I*

This class is designed to expand the students' vocabulary and grammar base. There is also increased practice in reading, writing and oral communication. Students will participate in culturally related activities and role plays.

Spanish III (10-12; Year Long Course) Workbook *fee \$17.50 (Workbook is used in Spanish III and Spanish IV)*

This class will offer students significant practice in conversation of a practical nature relating to personal needs, travel, world issues, careers and occupations. Students will review previous grammar and will learn additional structures. There will be an introduction to literature as well as practice in writing for different purposes.

Spanish IV (11-12; Year Long Course) *Continuation of workbook from Spanish III*

In this class students will improve their skills of listening, speaking, reading and writing through conversation, grammar review and the reading of literature. Topics that may be covered include entertainment, food and dining, tourism and traveling, and occupations.

Spanish V (12; Year Long Course)  UNIVERSITY OF WISCONSIN
GREEN BAY

This class will give students significant practice in improving speaking skills and will include a comprehensive grammar review. Students will increase their ability to read and write in Spanish. Students enrolled in this class also have the opportunity to participate in a concurrent enrollment program through UW-Green Bay. In this program students take the high school class and concurrently receive college credits. Students enroll in the course, pay a substantially reduced tuition fee and upon successful completion of the course (A or B), students receive 3 college credits and an additional 11 retroactive credits. The details and information for this course will be presented at the end of Spanish IV.

MATH

Pre-Algebra (9-11; Year Long Course)

This course provides an introduction to some basic concepts of algebra and provides an adequate background for later math work. Certain basic mathematical topics, including percents, the metric system, and probability are also covered in this course. Pre-algebra carries full credit as a freshman course, but may not apply to a college preparatory program.

Algebra I (9-12; Year Long Course)

This course is a prerequisite for all college-preparatory math classes offered at Valders. Any vocational-technical college program also requires Algebra I. It is usually taken by freshmen **or** by sophomores who have completed pre-algebra. The course covers all basic operations of positive and negative numbers. Detailed work is offered on equations, inequalities and graphing, together with practical applications of these topics. Other areas covered include factoring, fractions, square roots and exponents, which provides an adequate background for a program in high school math.

Integrated Geometry/Algebra (10-12; Year Long Course)

Prerequisite: Pre-Algebra or Algebra I

Students who have earned credit in Geometry, Algebra II, Introduction to Probability and Statistics, Precalculus or Calculus cannot enroll in this course.

The course focuses on geometry with an emphasis on problem-solving. Measurement, deductive reasoning, angles, reading and interpreting graphs, triangles, polygons, Pythagorean Theorem, basic trigonometric functions, and algebraic equations will be some of the topics included in this course. Please note that this course is NOT intended for college-bound students and will not fulfill math credits required for college or university admissions.

Geometry (9-12; Year Long Course)

Prerequisite: Algebra I

This course is designed to develop methods of reasoning and thought in the students. Problems dealing with angles, triangles, circles and other figures are studied, together with physical applications. Special units are devoted to logical thinking as an aid in problem solving in mathematics and elsewhere. NOTE: This course is required at most colleges and universities. Geometry should be taken prior to Algebra II; however, students may take Geometry and Algebra II during the same school year, **provided all of the instructors involved give written consent to this.**

Algebra II (9-12; Year Long Course)

Prerequisite: Algebra I and Geometry

The basic content of Algebra I is reviewed and expanded to cover more types of situations. The concepts of functions, sets, factoring, fractions, radicals and exponents are covered in detail. Trigonometry is also introduced, as well as sequences, series, conic sections, probability and statistics. NOTE: This course is often required at colleges and universities. Geometry should be taken prior to Algebra II; however, students may take Algebra II and Geometry during the same school year, **provided all of the instructors involved give written consent to this.**

Introduction to Probability and Statistics (11-12; Year Long Course)

Prerequisite: Algebra I, Geometry, and Algebra II

This course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will use the mathematical tools of high school algebra to facilitate the understanding of statistics and probability. Students will use probability distributions and statistics to make predictions, estimations, and test hypotheses.

Precalculus (11-12; Year Long Course)

Prerequisite: Algebra I, Geometry, and Algebra II

This course is a college preparatory class covering many topics in mathematics. It provides sufficient background and practice for students who need to take freshman-level college courses. The class attempts to draw many of the fields of math together as a whole. Precalculus expands on the topics learned in Algebra II and on the reasoning processes of Geometry. Special attention is paid to trigonometry, linear algebra, the study of functions, graphing, probability, and an introduction to limits and calculus.

AP Calculus AB (12; Year Long Course)

Prerequisite: Precalculus

This is a rigorous course intended for 4-year college bound students with a strong background in math. This course is a study of calculus, designed to conform to a traditional introductory college course sequence. Topics covered include limits of functions, derivatives, integration, exponential and other concepts covered in an "AB" level calculus course. Additional topics are added as time permits, including preparation for the spring AP calculus exam, which could provide college-level credit.

Math with Business Applications (12; Year Long Course) 

Prerequisite: Instructor Consent

This class would benefit a student who plans to attend a technical college. The course integrates math concepts with business and consumer scenarios. Topics covered will include proportions, percents, simple and compound interest, and basic statistics. Students who successfully complete the course may earn transcript credits from LTC.

MUSIC

Concert Band (9; Year Long Course)

This band will consist of all students in their first year of high school band. Previous experience on an appropriate instrument is necessary. Students new to the district with no previous experience may participate in the summer program to qualify for enrollment during the school year. Concert Band meets five days a week. Lessons and concert performances outside of the assigned class period are required as part of the grade. Credit toward graduation and honor roll is earned in this class. Participation in Marching Band is possible through enrollment in the Marching Band elective. Pep Band is optional.

Marching Band Elective (9-12; Quarter One) *Uniform Cleaning Fee \$10.00*

This course is offered to freshmen who, in addition to Concert Band, wish to field march, and to non-band students who wish to participate in marching as color guard members. Selection to be a member of Color Guard is by audition in the spring before the start of the school year. It will meet at the same time as Symphonic Band for the first quarter. Students will receive one-quarter credit.

Symphonic Band (10-12; Year Long Course) *Uniform Cleaning Fee \$10.00*

This band is open to students who have successfully completed Concert Band. Symphonic Band is the highest-level band, offering participation and performances in concerts, chamber groups, marching, and Pep Band. Symphonic Band meets five days a week, with lessons and performances outside of the assigned class period as a required part of the grade. Credit toward graduation and honor roll is earned in this class. Membership in this group also qualifies the student for voluntary participation in solo and ensemble festival and jazz ensemble. Instruction at this level is individually designed to meet the musical needs and interests of each student.

A Cappella Choir (10-12; Year Long Course) *Uniform Cleaning Fee \$10.00*

Prerequisite: Minimum of one year in Mixed Chorus, Concert Band, Symphonic Band, or instructor consent. This course will provide students with the experience of singing in a Class A choral organization. All styles of music will be studied from the Renaissance to the present. A special emphasis will be placed on classical or "legitimate" music. Sight singing, vocal production and techniques for ensemble singing will be studied. Requirements for the course include lesson attendance and participation in all concerts and contests. This course is open to students in grades 10, 11, and 12 by audition only.

Kvinne Kor/Mixed Choir (9-12; Norsemen and Kvinne Kor offered 1st semester and Mixed Choir offered 2nd semester.)

This course will provide students with the experience of singing in an all *female* choral organization. All styles of music will be studied from the Renaissance to the present. Emphasis will be placed on developing the female voice. In addition, choral singing techniques, sight singing and ear training skills will be emphasized. Course requirements include lesson attendance and participation in all concerts and contests. This course is open to all female students in 9th through 12th grades.

Norsemen/Mixed Choir (9-12; Norsemen and Kvinne Kor offered 1st semester and Mixed Choir offered 2nd semester.)

This course will provide students with the experience of singing in an all *male* choral organization. All styles of music will be studied from the Renaissance to the present. Emphasis will be placed on working through the challenges of the changing voice. In addition, choral singing techniques, sight singing and ear training skills will be emphasized. Course requirements include lesson attendance and participation in all concerts and contests. This course is open to all male students in 9th through 12th grades.

Mixed Chorus/Kvinne Kor or Norsemen (9-12; Norsemen and Kvinne Kor offered 1st semester and Mixed Choir offered 2nd semester.)

This course will provide students with the experience of singing in an SATB choral organization. All styles of music will be studied from the Renaissance to the present. Vocal production, choral singing techniques, sight singing and ear training skills will be emphasized. Course requirements include lesson attendance and participation in all concerts and contests. This course is open to all students in grades 9 through 12. Class size will be limited to 75 students. If enrollment exceeds 75 students, instructor consent will be required.

PHYSICAL EDUCATION* / HEALTH

Freshman PE (9; Required Semester Course)

Freshman PE is a required course with an introduction to a wide variety of team and individual activities with an underlying focus on fitness. Students will learn basic rules, fundamentals, and strategies of these activities. They will also develop the ability to exhibit responsible personal and social behavior in physical activity settings.

Health (9; Required Semester Course)

Health 9 is a required course for all freshmen. It is designed to teach beneficial knowledge and skills that encourage students to think critically about how the decisions they make will affect their lives today and in the future. Topics included are: wellness, nutrition, stress management, suicide prevention, conflict resolution, healthy relationships, STD prevention, CPR, and much more. Evaluation is based on individual assignments, tests, quizzes, research projects, cooperative group work and participation.

Individual Activities (10-12; Semester Course) *Fee for each bowling session.* Repeatable course

Prerequisite: *Freshman Physical Education*

This course will focus on health and skill-related fitness by emphasizing activities that may be done independently. Activities will include but are not limited to Swimming, Tennis, Badminton, Pickle Ball, Golf, Table Tennis, Archery, Bowling, Self Defense, Personal Fitness and Culminating Experiences.

Lifetime Fitness (10-12; Semester Course) *Fee for each bowling session.* Repeatable course

Prerequisite: *Freshman Physical Education*

The purpose of this course is to help students develop a solid foundation of fitness and wellness knowledge as well as tools needed for maintaining a healthy lifestyle after they graduate high school. Activities will include but are not limited to: Snow Shoeing, Yoga/Pilates, Aqua Fitness, Lawn Games, Geocaching, Frisbee Golf, Archery, Dance, Adventure Education, Aerobics, Biking, Nutrition Education and Culminating Experiences.

Professional Lifeguarding (10-12) *Fee for each certification & course materials*

Prerequisites: *have the ability to swim 300 yards, a 20 yard swim with brick retrieval, and be at least 15 years old*

Students will be certified in lifeguarding and CPR through lessons and skills tests. Basic first aid and safety will be incorporated into class to benefit students' everyday life. Students will gain the necessary knowledge and skills to help in emergency situations and for potential employment opportunities. Upon successful completion of the course, participants will have a 3-year certification required to lifeguard as well as the 2-year CPR/AED certification. (Approx. \$35)

Strength & Conditioning (9-12; Semester Course) Repeatable course

This class will focus on health related fitness components (muscular strength, muscular endurance, cardiovascular endurance, flexibility, body composition). Activities will include: pre/post fitness evaluation, individualized weight training, conditioning, speed and agility drills, and sports-based nutrition.

Team Sports (10-12; Semester Course) Repeatable course

Prerequisite: *Freshman Physical Education*

This course offers a variety of competitive and recreational activities involving a fitness focus and team play. Students will learn in depth skills, strategies, and rules of activities while working on their interpersonal relationships in a cooperative environment. Students will identify personal health benefits from all activities. Volleyball, Basketball, Flag Football, Ultimate Sports, Floor/Field Hockey, Soccer, softball and Eclipse Ball are activities offered in this course.

*Only one physical education course may be taken per semester.

*Physical education credits must be earned over a three-year period.

SCIENCE

Science 9 (9; Year Long Course)

Science 9 is a one-year course designed to introduce students to basic and intermediate chemistry and physics concepts and procedures. Students study physics divided into the following sections: forces & motion; work & energy; electricity & magnetism; sound & waves; light & optics; heating & cooling. This is followed by chemistry when students study the properties, classification and structure of matter. The study of atoms and bonding leads to chemical reactions, solutions, acids, bases and ends with nuclear chemistry. This course is designed to prepare students for full year physics and chemistry courses.

Biology I (10; Year Long Course)

This one-year course fulfills the biological science requirement for graduation. Biology I is the study of living things, in which general scientific principles, cells, genetics, animals, and plants are studied. Students are taught through class discussions, demonstration, research, and laboratory experiments. Laboratory work consists of discovery and problem-solving activities including the use of microscopes, reagents, dissecting kits, plants, and animals. Biology I provides insight into the living world of which we are all a part.

Biotechnology (10-12; Elective Year Long Course)

Prerequisite: Biology I.

This course will not fulfill science credit required for colleges or universities.

It does NOT replace Biology required for high school graduation.

Biotechnology is a one-year **elective** course offered for students who are interested in preparing themselves for technical college. Students successfully completing Biotechnology will also find themselves well prepared for Chemistry I. The units of study in Biotechnology include water, gases, genetics, natural resources, and microbiology. Students in Biotechnology are taught primarily through hands-on lab and classroom activities. Biotechnology will prepare students for the ever-increasing biology/chemistry-based skills job market.

Chemistry I (10-12; Year Long Course)

Prerequisite: Algebra I & Biology I. (However, biology and chemistry may be taken concurrently in sophomore year with approval from the freshmen science teacher.)

Students in Chemistry are taught through lecture, demonstrations, and laboratory experiments. Once the theory is learned in class, it is reinforced in the laboratory. Chemistry is the study of relationships between the physical and the chemical properties of matter. Because everything is composed of matter, the study of chemistry will help you to learn more about nature. Students investigate chemical reactions, reaction rates, and energy changes that accompany changes in chemicals.

Biological Concepts of the Environment (11-12; Year Long Course)

Prerequisite: Physical Science & Biology

Biological Concepts of the Environment is a lab-based class, combining physics, chemistry, biology, government, earth science, agriculture, physics, and ethics from the local to the global levels. As an integrated science course, it would be a good third science choice for students who choose not to take or are not yet ready for Chemistry I. This course uses all previously learned sciences and their applications to human interaction with Earth's systems. To prepare for class, there is some required reading over the summer **or** *students can choose to read during first quarter*. The list contains books that are well known and pertain to this course. The list may be obtained from the instructor along with the journaling requirements.

Biology II (11-12; Year Long Course)

Prerequisite: Biology I & Chemistry I

Biology II is a one-year course for students who are interested in studying biochemistry, genetics, and physiology. Biochemistry is taught during the first semester and involves learning about biomolecules, protein modeling, metabolism, photosynthesis and cellular respiration. Genetics, evolution, development and physiology are taught during the second semester. Topics include how molecular genetics may be used in conservation biology and how cardiac and respiratory systems interact to sustain life. Laboratory work, which is a major component in Biology II, encourages higher-order thinking, problem solving, writing, and proper lab technique. This course is highly recommended for the student that is considering a two or four year degree in any science-related field.

Biology - Human Anatomy (11-12; Year Long Course)

Prerequisite: Biology I and Chemistry I (Chemistry I may be taken the same year as Human Anatomy).

This course explores an in-depth understanding of anatomical structures and physiological interactions of the body. An emphasis is placed on the organization and interactions of such systems as the skeletal, muscular, nervous and circulatory. This course would benefit students who are pursuing any type of health career, veterinary science or biomedical engineering as well as those who are interested in learning more about their body. This course has a substantial laboratory component, including a systemic mammal dissection. Every attempt is made to apply the material to familiar issues, problems, and experiences.

Chemistry II (11-12; Year Long Course)

Prerequisite: Chemistry I

This course is intended for the student that is considering a post-secondary degree in the science, medical, or technology field. The concepts of chemistry introduced in Chemistry I will be enhanced and expanded upon. An increased emphasis will be placed on the models used to explain and predict the products of a chemical reaction, and studies will include the energy associated with any chemical change. Concepts regarding reaction kinetics, acids and bases, and thermodynamics will be discussed in-depth and supported by extensive laboratory investigation.

Physics (12; Year Long Course)

This class is strongly recommended for students planning on pursuing a 4 year degree or a 2 year technical degree. This is a class that college admission offices like to see on applicant's transcripts. In this class, students will experience five main topics of physics: Mechanics, which explores how and why things move they way they do, Energy, Thermodynamics, Sound and Hearing, Light and Seeing. This course will develop student's problem solving and critical thinking skills through many projects that will allow students to build simple objects that demonstrate the principles. Students will leave this class with an appreciation and understanding of the technologies that affect their daily lives.

SOCIAL STUDIES

World History (9; Required Year Long Course)

This year-long course is required for graduation. The course traces the important world personalities, events, and ideas from the first hominids to the French Revolution. Students participate in activities related to the lesson taught. Students also complete map assignments and analyze how geography has played a vital role in many historical events. Special attention is given to the following themes: writing and literacy, migration, religious beliefs, laws, empire building, governments and leadership, wars, trade, power, technology and terrorism. An ongoing part of the class is the discussion of current world events.

Government (10; Required Semester Course)

The student will learn about the Legislative, Executive and Judicial Branches of American Government. This includes the functions of Congress and its ability to pass laws, the role of the Presidency and the power of the Supreme Court to protect the Constitution. Students will study the importance of political parties in shaping the Government and understand their voting rights in the electoral process. Besides the Federal Government, State and Local Government is also studied. An ongoing part of the class is to discuss current events in regards to their relevance to the course.

U.S. History (10; Required Semester Course)

This American History course covers a time frame from the Presidency of George Washington to the late 1800's. Topics include the Louisiana Purchase, the War of 1812, the industrialization of the Northeast and rise of immigration, Reform Movement, settlement of the American West, the slavery issue, Civil War, Reconstruction and the growth of American Industry.

U.S. History (11; Required Year Long Course)

This required course deals with the Twentieth Century and the Twenty-first century. Throughout the school year the student will cover units about WWI, the 1920's, and the Great Depression. Other units will involve an analysis of WWII, the Cold War, The Korean War and the Vietnam War. Students study life during the 1950's, the Civil Rights Movement, and important events of the 1970's through the present. As events and times dictate, current events that affect the United States will also be examined.

Current Economics Issues (11-12; Semester Course)

The goal of this course is to prepare the student to become financially literate as they enter adulthood. The course provides the basic principles of the American economic system and will acquaint the student with investing and saving. This includes an extensive look at the Stock Market, which includes participation in the Stock Market Simulation, giving students real-life experiences of trading stocks on the American Stock Exchanges. Students will study consumer credit including how credit cards work and the impact of credit scores. The recent recession and its causes, primarily the housing market, are included in the course.

History of Human Behavior (11-12; Semester Course)

This is a challenging elective course for college-bound juniors and seniors. The curriculum highlights neuroscience and the nature and nurture of behavior. An important aspect of this class is the study of developmental theories and the developing person. Projects include a sleep study and a brain project. Other units include learning and intelligence, motivation, personality and psychological disorders. Students are expected to apply critical thinking skills as well as exhibit respect for humanity and diversity. College study skills are explained and practiced throughout the semester.

Sociology (11-12; Semester Course)

The course includes the study of cultural variations, roles and relationships, groups, social stratification, families, religion and education. Students will study about the social problems that affect our society. This includes prejudice and discrimination, poverty, sexual social problems and alcohol and drug abuse. The goal is for the student to become aware of the influence of human relationships and how they affect current social issues.

TECHNOLOGY

Aviation (10-12; Semester Course) *Fee for each certification, course materials, and \$100 FAA flight*

Aviation is a course for the motivated student to gain a basic understanding and knowledge of aircraft, aerodynamics, airport environments, meteorology, navigation systems, and career opportunities. Aviation is a student-activity centered course. Students will construct and work with model airplanes, flight simulators, and UAV. Students will be expected to participate in a Young Eagles® flight with the help of local EAA pilots. Student will also be expected to take an introduction flight at CAVU flight academy where they will fly with a FAA certified flight instructor and be allowed to actually fly the plane (cost to student \$100). Upon completion of the course, it is expected students will be prepared to take the FAA ground school exam required to obtain their private pilot's license. The course will also include a tour of the FVTC Aviation Center, the EAA museum and an Air Traffic Control facility. Students should be prepared to commit to at least two Saturdays to complete the flight requirements. Students taking the private pilot exam will need to purchase the following items: Current FarAIM, mechanical flight calculator, plotting ruler, current VFR sectional.

Advanced Wood Technology (10-12; Semester Course) *Course Fee \$10.00*

Prerequisite: Wood Technology

This course will allow students to develop their understanding of the woodworking industry by selecting their own projects to build with approval of the instructor. Students will focus on shop safety, planning, layout, cutting, assembly and finishing. Time management, staying on task and following a design process will be key to being successful in this course.(Note: Students take home their completed projects constructed in the class, so all wood and materials need to be purchased by the student.)

CAD Design I (9-12; Semester Course)

In CAD Design I, students are introduced to CAD software to give them a better understanding of the design process. This class is devoted to CAD technologies in both architectural and mechanical design. Students spend nine weeks in each of these two areas. This course is a prerequisite to other technology classes to make the fabrication process more efficient with prior planning before raw materials are utilized. Students planning post-high school study in engineering, drafting, architectural design, construction planning, or related fields, would certainly benefit from this course.

CAD Design II (9-12; Semester Course)

Drafting and design skills are needed by today's engineers, contractors, machinists, and managers. CAD II will expand student opportunities in problem solving through the realm of engineering. The ability to read, develop, and interpret mechanical drawings and construction designs will continue to be a necessity in our technical world. Many industries have part or all of their design departments using CAD equipment. The layout of this class will allow students to problem solve and develop higher level thinking skills as well as look at motion analysis and reverse engineering.

Communication Technology (9 -12; Semester Course)

Communication Technology is an 18-week course that covers the basics of design composition, the history of communication, internet use and protocol, audio-video, computer presentations, and basic web page design. This course is a well-rounded look at graphic communication and trends in communication.

Construction Technology (9-12; Semester Course) *Course Fee \$10.00*

Prerequisite: *CAD*

Students will study residential construction methods and design. Students, working in groups, build scale models of wall framing and will also learn about foundation construction, interior finishing techniques, and exterior finishing. With the skills learned, a student should be able to understand the basics of residential construction methods. New innovations in passive and active solar systems are studied. Students work with blueprint reading and development, construction estimating, heat loss, and architectural computer-aided design systems.

Digital Electronics-Applied Physics (10-12; Elective Semester Course) (*Introduction to Personal Computer Hardware*)

Prerequisite: *Electronics Fundamentals.*

This elective course will start with a simple introduction to binary code, what it is, and how digital devices use it to make decisions. The focus will then turn to the principle device of digital information, the personal computer (PC). A brief history and the theory of operation will be discussed. The class will include an introduction into A+ certification and its requirements. Each lab group will be assigned a PC. It will be the group's task to disassemble the computer and then reassemble and troubleshoot their PC; finishing the project with the installation of an operating system and several plug-and-play devices. This will be followed by an introduction to local networks and an overview of Network+ certification.

Electronics Fundamentals-Applied Physics (10-12; Elective Semester Course)

Currently the field of information technologies and electronics is experiencing a tremendous shortage of job applicants. There are tremendous opportunities for bachelor and technical degree graduates. This **elective** course is intended to introduce some basic electrical concepts to students in a hands-on environment. No prior knowledge of electronics is needed or expected. Students will learn the basic concepts of voltage, amperes, resistance, inductance, and capacitance. These concepts will be learned through their applications in simple devices, including simple make-and-take projects.

Intro to Engineering (11-12; Year Long Course)  Repeatable course

Prerequisite: *CAD and Instructor Approval*

Intro to Engineering is a project design and manufacturing oriented course for students with advanced skills in CAD and custom design. Working as a team in conjunction with the Manitowoc County High School Manufacturing Project, students design and build a mini-chopper or other type of high mileage vehicle. During the process, students create a project website and make numerous presentations to their corporate sponsor(s). Enrollment in the course is based on an application and interview process and the number of positions on the team is limited. Students who successfully complete the course may earn three credits of advanced standing in manufacturing from LTC. With a leadership role, successful second year students may also earn one credit of advanced standing in CAD from LTC.

Introduction to STEM (9-12; Semester Course) *Course Fee \$15.00 (Revised Class: Formerly Basic Shop)*

This is an introductory class designed for any student who plans to own a home, rent an apartment or who simply has an interest in exploring a STEM (Science, Technology Education, Mathematics) course. Students will learn how to solve simple problems that may arise with electrical, plumbing and cosmetic repair of houses. Students will also explore wood processing, metal working, and small engines.

Manufacturing Technology (10-12; Semester Course) *Course Fee \$10.00*

Prerequisite: CAD

Manufacturing Technology provides opportunities to study the elements of manufacturing products. Areas of study include techniques common to manufacturing industrial products. A second area presented will be Industrial Enterprise. Students organize and control a small business and produce products that are designed, constructed, and marketed by students. Drafting skills will be introduced along with computer applications. An intriguing benefit of this course is that students have the potential to make a profit!

Metal Fabrication (10-12; Semester Course)  *Course Fee \$20.00*

Prerequisite: CAD

Metal fabrication involves students gaining “hands-on” experience by learning stick arc welding (SMAW), wire-feed welding (GMAW), plasma cutting, oxygen-acetylene torch, and fabrication of metal project parts. Students will learn the basics in metal science: the properties of different metals, the testing of metals, heat treatment, metal designations, and the different types of metal. Students will actively practice safety, measurement, and machining when in the classroom and lab (Note: Students will design their own final project and the materials required for the project are purchased by the student.) One Lakeshore Technical College Weld Math credit earned for successful completion.

Residential Construction (10-12; Semester Course) *Course Fee \$15.00*

Prerequisite: Completion of Construction Technology with a C or above

This course will provide students with knowledge and hands-on experiences related to house framing, codes and regulations as well as site preparation, foundation systems, enclosures, utilities, finishing methods, and green construction. A major emphasis will be placed on safety as it relates to each area. Students will develop entry level skills in construction and related trades along with an overview of career opportunities available and/or which will better prepare them for post-secondary career opportunities. *Carpentry and masonry projects both on and off of school grounds will be incorporated into required class projects.*

Robotics Fundamentals-Applied Physics (10-12; Elective Semester Course)

Prerequisite: Electronics Fundamentals.

This elective course is a one semester class and is intended for the self-motivated person who likes technology and believes there is “always a better way” to solve a problem. In this course, students will be introduced to the concepts of robotics, will explore existing technologies and apply them to different situations to solve problems. This will be a hands-on learning experience during which “good enough” never is. Students will build several robots or robotic parts from recycled materials that will be controlled remotely and autonomously.

Technical Emergency Management (11-12; Semester Course) 

Technical Emergency Management will expose students to the duties, responsibilities, requirements, and career opportunities within public service. Course topics vary and may include, but are not limited to, public safety, police, fire, EMS, emergency services, forensics, corrections, and homeland security issues. During the class students will be working towards their incident command certifications through FEMA. This is a transcribed class with Lakeshore Technical College and students who are 16 years old and earn at least a B will be awarded two college credits.

Wood Technology (9-12; Semester Course) *Course Fee \$15.00*

Prerequisite: CAD

This course is designed to introduce students to the field of woodworking. Students will create one or two quality projects in this class, where they will learn about shop safety, planning, layout, cutting, assembly and finishing. Students will work with hand and power tools to obtain an overall exposure to various areas of the woodworking industry. Occupational opportunities in the woodworking industry, and construction trades, along with working conditions and training requirements will be discussed. (Note: Students will design their own final project and the materials required for the project are purchased by the student.)

OTHER COURSES

Non-Credit Teacher Assistant (12; Year Long Course)

Senior students may apply to become a teacher assistant at the K-4, middle, or high school level. Duties may involve the following activities: tutoring students, assisting with lab maintenance, assisting in school offices, classroom clerical, reading aloud to students, listening to book reports, and miscellaneous jobs such as data entry, photocopying, etc. This program does not earn elective credit, making it a non-graded, non-GPA course.

Work Experience (12; Semester Course)

School-supervised Work Experience is a course designed to give high school students a chance to choose a career area and explore it through work experience prior to graduation. Students will be excused from a portion of the school day for work and will receive elective credits. This is a semester course that can be taken both semesters to total one credit. Students interested must complete an application to be eligible. Students should already be employed or be guaranteed that they will be employed when school starts in September. Staff and prospective employers will screen all applicants. Work Experience requires a student to be responsible, self-motivated, and self-reliant. Successful applicants will be notified of their placement. Mandatory: On average 10 hours of scheduled work per week. The first two weeks of class will be spent with the teacher completing curriculum requirements before students will be excused to work at their jobs during the school year.

Youth Apprenticeship (11-12)

Students who are going to be a junior or a senior have the option of applying for a **Youth Apprenticeship Program**. Some programs last two years (Manufacturing/Machining, Auto Technician, Auto Collision, Drafting, and Design), and some last for one year (Finance, Health, Welding, Information Technology, Industrial Equipment, Lodging Management, Production Agriculture in Animal or Plant Science). The student attends classes at Valders for 5 periods, attends classes elsewhere (Lincoln, Reedsville, LTC, etc.), and is involved in a paid work experience for 15-20 hours/week. The apprenticeships involve an application and interview process. See Student Services for more information.

Youth Options (11-12)

Students who are going to be a junior or senior have the opportunity to participate in the **Youth Options Program**. This program allows a student to take classes at technical colleges and academic colleges. If approved for high school and college credit, the district pays for these classes. Like Youth Apprenticeships, there are **very specific guidelines** that must be met to receive approval in order to participate in **Youth Options**. Contact the Student Services staff for further information on this program.

2017-2018 YOUTH APPRENTICESHIP PROGRAMS

2017-2018 Youth Apprenticeship Informational Meeting for Manitowoc County High School
(TENTATIVELY Monday, January 15, 2018) 7:00-8:30PM @ Mtwc Lincoln High School Auditorium
www.manitowocountyyouthapprenticeship.com

Youth Apprentice Career Fields

- Agriculture
 - Large Animal /Herd
 - Plant Basics/Crops
- Auto Technician
- Construction
 - Carpentry
 - Concrete/Masonry
 - Electrical
 - HVAC
- Diesel Technician
- Engineering/Drafting
- Financial Services
 - Accounting
 - Banking
 - Insurance
- Health Services
 - CNA
 - Dental Assistant
- Hospitality, Lodging, and Tourism
 - Culinary
 - Lodging
- Industrial Equipment
- Information Technology
- Manufacturing Machining
- Manufacturing Woods
- Plumbing
- Sales & Marketing
- Veterinary Tech
- Water Operations Management
- Welding

2017-2018 Youth Apprenticeship Programs Valders High School Related Instruction

YA Program	YA Unit	Related Instruction
Construction	Carpentry	VHS: Wood Technology, Advanced Wood Technology, Construction Technology, Residential Construction, CAD Design, CAD 2, Intro To STEM LTC: OSHA 10 & First Aid (required)
	HVAC Technician	VHS: Wood Technology, Advanced Wood Technology, Construction Technology, Residential Construction, CAD Design, CAD 2, Intro To STEM, Manufacturing Technology, *Metal Fabrication, *Intro to Engineering LTC: OSHA 10 & First Aid (required)
	Plumbing	VHS: Wood Technology, Advanced Wood Technology, Construction Technology, Residential Construction, CAD Design, CAD 2, Intro To STEM LTC: OSHA 10 & First Aid (required)
	Electrician	VHS: Wood Technology, Advanced Wood Technology, Construction Technology, Residential Construction, CAD Design, CAD 2, Intro To STEM. Electronics Fundamentals, Robotics Fundamentals, Digital Electronics, *Intro to Engineering LTC: OSHA 10 & First Aid (required)
	Masonry/ Concrete	VHS: Wood Technology, Advanced Wood Technology, Construction Technology, Residential Construction, CAD Design, CAD 2, Intro To STEM LTC: OSHA 10 & First Aid (required)
Science, Technology, Engineering, & Math	Engineering/ Drafting	VHS: Intro to STEM, CAD Design, CAD 2, *Intro To Engineering LTC: Mechanical Design
Financial Services	Banking	VHS: *Accounting 1, Accounting 2, Advanced Spreadsheet and Database, Business Cents, *Microsoft 1 and 2, Personal and Business Law LTC: Cost Accounting
	Accounting	VHS: AgriBusiness, *Accounting 1, Accounting 2, Advanced Spreadsheet and Database, Business Cents, *Microsoft 1 and 2, Personal and Business Law LTC: Cost Accounting
	Insurance	VHS: *Accounting 1, Accounting 2, Advanced Spreadsheet and Database, Business Cents, *Microsoft 1 and 2, Personal and Business Law
Health Science	Certified Nursing Assistant	VHS: Intro To Health Occupations, Biology 1, Biology 2, Biology-Human Anatomy LTC: CNA class (required), Medical Terminology (LSHCA)
	Dental Assistant	VHS: Intro To Health Occupations, Biology 1, Biology 2, Biology-Human Anatomy LTC: Medical Terminology, HC Customer Service (LSHCA)

**Indicates classes available for advanced standing or transfer credit.*

YA Program	YA Unit	Related Instruction
Hospitality, Lodging, & Tourism	Food & Beverage/ Lodging	VHS: Culinary Foundations, Culinary Arts- Bake Shop Principles, Culinary Arts- Professional Cooking, Food Science/Ag Technology LTC: Hospitality class
	Sales & Marketing	VHS: *Accounting 1, Accounting 2, Advanced Spreadsheet and Database, Business Cents, *Microsoft 1 and 2, Personal and Business Law, *Sports and Entertainment Marketing, Communication Tech
Information Technology	Info Tech Essentials	VHS: Microsoft 1 and 2, Computer Science 1, Computer Science 2 Java Program, Video Game Programming LTC: PC Support 1 & 2
Manufacturing	Industrial Equipment Maintenance	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals LTC: Intro to
	Machining	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals LTC: Measuring/Print Reading/Math/Hand Tools/Drills/Saws-Material ID/Mills1/Lathes1
	Welding	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals LTC: Intro to Welding/Welding Print Reading/GMAW1A/GMAW1B/SMAW1A/SMAW1B/
	Wood Processing	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals, Wood Technology, Advanced Wood Technology, Construction Technology, Residential Technology, Intro to STEM LTC: CNC, Machining, Hand Tools, Drill/Saws, Measuring
	Production/ Assembly	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals
	Industrial Painting	VHS: *Metal Fabrication, Intro To STEM, Manufacturing Technology, CAD Design, CAD 2, *Intro To Engineering, Electronics Fundamentals, Digital Electronics, Robotics Fundamentals LTC: Auto Collision class
Production Agriculture	Animal Science/ Plant Science	VHS: Vet Science, Large Animal Science, Natural Resource Management, Horticulture, Advanced Horticulture, Landscape Management, *Metal Fabrication, AgriBusiness LTC: Intro to Animal Science, Animal Health
	Veterinary Technician	VHS: Vet Science, Large Animal Science, Biology 1, Biology 2, Biology Human Anatomy, Physics, Chemistry 1, Chemistry 2, AgriBusiness LTC: Intro to Animal Science, Animal Health
	Water Resource Management	VHS: Natural Resource Management, Chemistry 1, Chemistry 2, Biotechnology, Biological Concepts of the Environment
Transportation	Automotive Technician	VHS: *Intro To Engineering LHS: Lincoln High School Consumer Autos, Advanced Autos Class
	Diesel Technician	VHS: *Intro To Engineering LHS: Lincoln High School Consumer Autos, Advanced Autos Class

**Indicates classes available for advanced standing or transfer credit.*

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We will not drop a student from a full year course at the end of semester, unless the drop is initiated by school administration.

