

THREE LAKES  
HIGH SCHOOL



**Course Book**

2019-2020

## Non-Discrimination Policy

According to policy 1600, the School District of Three Lakes is committed to equal education opportunities for all students in the district. It is a policy of the School District of Three Lakes, pursuant to s.118.13, Wis. Stats. and PI 9, that no person, on basis of gender, race, national origin, ancestry, creed, color, religion, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability, may be denied admission to any school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil services, recreational, or other program.

Discrimination under related federal statutes, including Title VI of the Civil Rights Act of 1964 (race and national origin), Title IX of the Education Amendments of 1972 (sex) and Section 504 of the Rehabilitation Act of 1973 (handicap) is prohibited.

The District Administrator, as the designated employee, shall en-

sure that an employee is designated annually to receive complaints filed under s. 118.13, Wis. Stats., PI 9, Wis. Admin. Code, Title IX of the Educational Amendments, and Section 504 of the Rehabilitation Act of 1973. The district encourages informal resolution of complaints. A formal complaint resolution procedure to address allegations of violations in the School District of Three Lakes is available.

Any questions concerning s. 118.13, Wis. Stats., can be directed to:

**Dr. George J. Karling, Administrator**  
**School District of Three Lakes**  
**6930 W. School Street**  
**Three Lakes, WI 54562**  
**715-546-3496.**

## Technical Excellence Scholarship

The Technical Excellence Scholarship (TES) program began during the 2015 school year. The TES will be awarded to a graduating senior who has accumulated the greatest number of credits from the list of approved courses, with a minimum grade of a C. The scholarship recipient must attend a school in the Wisconsin Technical System and be enrolled in a program leading to a technical degree.

The TES was created through the Wisconsin legislature and administered through the Higher Education Aids Board (HEAB). This scholarship is funded through the State of Wisconsin and will continue to be awarded to a Three Lakes student as long as this funding source is provided.

Current Three Lakes High School courses that will be counted for the TES are listed here. Applicable distance, online or youth options classes have not been listed, but will also be counted.

Basic Art	Foods I
Drawing I	Foods II
Drawing II	Advanced Foods
Metalsmithing & Sculpture	International Foods
Traditional Graphic & Design	Fashion Merchandising
MS Office	Interior Design
Personal Finance	Engineering & Design Tech.
Business Concepts	Drafting and Design
Business & Personal Law	Small Gas Engines
Accounting I	Wood Tech. and Processes
Accounting II	Furniture & Cabinetmaking
Accounting III	Metals and Welding Tech. I
Computer Programming I	Metals and Welding Tech. II
Computer Programming II	How to Make Almost Anything
Computer Programming III	Technical Math & Science Concepts
Computer Programming IV	

## Independent Study Courses

At Three Lakes High School, we're excited to introduce a new set of courses designed to help our students customize their education. Independent study courses, which consist of student-driven learning, let students strengthen college applications, prepare for future jobs and explore areas of personal interest. Independent courses are also an option for students who are interested in a class, but can't take it during the time it's offered.

As the name implies, these courses are under much less supervision and direction than a typical class. Students will learn independently about a chosen topic under the supervision of a faculty

member. Learning takes place outside of the student's regular class schedule, which makes the courses highly flexible.

Student-driven learning is for the highly motivated, responsible student who can work independently. We hope that by offering this option, students at Three Lakes High School will continue following their passions through a broader educational path.

Our current pre-designed offerings are listed in the Independent Study section of this course book. If students do not see a topic that they are interested in, they can propose a new area of study to administration and work to design a unique learning experience.

## Dual Credit Opportunities

Students who are in good academic standing have the opportunity to earn college credits either through the Start College Now program or through Early College Credit Opportunities.

These opportunities allow students to take college classes either online or in person. At Three Lakes School District, this most often means students are taking courses through Nicolet College in Rhinelander. Once students graduate from high school, the credits earned through the Start College Now program can be transferred to any Wisconsin technical college.

To register for dual credit opportunities, students must work with their guidance counselor to begin the application process. Announcements will be made at school when the application periods are open.

Three Lakes High School students may also participate in transcribed credit opportunities. These transcribed credit opportunities are classes held at Three Lakes and taught by Three Lakes teachers. Students enrolled in a transcribed credit class receive both high school and college credit for a course.

## Career Clusters & Pathways

Career Clusters are groupings of occupations that use similar skills and knowledge. Career Clusters can help students focus their career exploration by matching interests with the skills, knowledge and training required for different occupations. Students should then be able to schedule their school day with relevant and rigorous courses to best prepare themselves to pursue occupational goals. Below are descriptions of each career cluster and a sample of potential careers.

### Ag, Food & Natural Resources

The production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture.

### Architecture & Construction

Careers in designing, planning, managing, building and maintaining the built environment.

### Arts, A/V Technology & Comm.

Designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

### Business Management & Admin

Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

### Education & Training

Planning, managing and providing education and training services and related learning support services.

### Finance

Planning, services for financial and investment planning, banking, insurance and business financial management.

### Government & Public Admin.

Planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation and regulations.

### Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

### Hospitality & Tourism

Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services.

### Human Services

Careers that relate to families and human needs such as counseling, mental health services, family and community services, personal care, and consumer services.

### Information Technology

Building linkages in IT occupations related to the design, development, support and management of hardware, software, multimedia and systems integration services.

### Law, Public Safety, Corrections & Security

Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

### Manufacturing

Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

### Marketing

Planning, managing and marketing to reach organizational objectives.

### Science, Tech., Engineering, Math

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

### Transportation, Dist. & Logistics

Planning, management, and movement of people and materials by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

## High School Course Plan Instructions

Required courses are listed for each grade level. Pay attention to overall requirements, because some are not grade-level dependent. When selecting courses, research the entrance requirements of any post-secondary programs to make sure you are on target to meet those requirements.

### Additional Graduation Requirements

Health completed? Yes \_\_\_ No \_\_\_ Year \_\_\_\_\_

40 Hours Community Service Yes \_\_\_ No \_\_\_ Hours Completed \_\_\_

Department	Gr. 9	Gr. 10	Gr. 11	Gr. 12	Required	Completed
<b>English</b>	English 9	English 10	English 11	English 12	4.0	
<b>Social Studies</b>	Civics		Am. Studies	Social Issues	3.0	
<b>Science</b>	Phy. Science	Biology			3.0	
<b>Mathematics</b>	Math ___	Math ___	Math ___		3.0	
<b>Phy. Ed</b>					3.0	
<b>Child &amp; Parenting</b>					1.0	
<b>Electives</b>					5.0	
<b>Totals</b>					<b>22.0</b>	

## Graduation Requirements

The School District of Three Lakes requires students to accumulate a minimum of 22 credits to be eligible for graduation. This must be achieved by completing the required courses, as set by the Three Lakes School District Board of Education, combined with elective courses. All students are encouraged to take more than the minimum to take advantage of various course offerings. Students are also required to accumulate 40 community service hours. For activity participation, 4.5 credits is considered full-time student status. In addition, Wisconsin state law requires 0.5 credits of health or equivalent be earned sometime in grades 7-12. Electives and Health s.118.33 Wisconsin Statutes "The state superintendent shall encourage school boards to require an additional 8.5 credits selected from any combination of vocational, foreign languages, fine arts, and other courses."

### Three Lakes Credit Requirements

Child & Parenting	1.0 credits
English	4.0 credits
Mathematics	3.0 credits
Physical Education	3.0 credit *
Science	3.0 credits
Social Studies	3.0 credits
<b>Total Required Courses</b>	<b>17.0 credits</b>

\* or three (3) classes,

## Graduation Credit in Lieu of Phy. Ed.

A student who participates in and finishes a high school sponsored sports activity in good standing may complete an additional 1.0 credit beyond graduation requirements in English, social studies, mathematics, science, or health education in lieu of the 1.0 credit of the 3.0 required credits in physical education to fulfill graduation requirements. The student must earn, at minimum, a participation certificate in the high school sponsored sport activity and complete the season without a co-curricular code infraction. The student must also earn 1.0 credits in English, social studies, mathematics, science, or health education beyond graduation requirement.

## Guidance Counselor

The counselor's major function is to offer counseling services that assist students in deriving the maximum benefit from their education. Each student is helped to pursue their own development as an individual and as a member of the Three Lakes school system. Counseling is available to all students who want professional assistance with educational, vocational, or personal matters. Counseling is most effective if students know that information discussed with the counselor is held in confidence. Records are kept only to aid the student. Information is not released without the student's personal consent. The only exception is in the event of a threat to himself/herself or others. Students are encouraged to visit the counselor at their convenience.

# Art

## Basic Art

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

Are you ready to begin an action-packed art adventure? Basic Art prepares you for all art courses offered. This class is designed to let the beginner explore various art mediums, art history, presentation, as well as design. Content includes the following: drawing, perspective, Fab Lab adventures, ceramics, sculpture, graphic design, acrylic painting and airbrush. You do not need to have art "talent" to take this course. You will participate in exciting contests and fun activities. This class is required for other high school art classes.

## Airbrush I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years JH art

This course introduces foundational airbrush techniques to create realistic artwork, combine with other mediums, and use in related careers. Also, the course will discuss related art history, design, presentation and terminology. Additional time outside of class will be necessary. Class size is limited. You may be enrolled in other art classes at the same time.

## Airbrush II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art and Airbrush I

Airbrush II guides you to use complex airbrush textures to create startlingly realistic masterpieces. This course will further your knowledge of art design and history while teaching you tips to develop the expressive nature of your work and market your artwork. You will use advanced tools to address challenges faced by students and professionals. Additional time outside class will be necessary. You may be enrolled in other art classes at the same time.

## Drawing I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years JH Art

This course is designed for you, whether you have little background in drawing or draw well. It explores various drawing mediums including: pencil, color pencil, ink, pastel, graphic design and simple printmaking. It features tricks for drawing portraits, scenic vistas, and still life drawings. Also, course will discuss related art history, design, presentation and terminology. Additional time outside of class will be necessary. You may be enrolled in other art classes at the same time. Course is beneficial preparation for art classes at Nicolet College.

## Drawing II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Drawing I

Drawing II investigates advanced drawing concepts including figure drawing, mixed medium, expressive strategies, animation and cartooning. It provides an exciting exploration in traditional and digital drawing that will prepare you for taking future college classes, exploring related careers, presenting your ideas and enjoying life. Additional time outside of class is necessary. You may be enrolled in other art classes at the same time. Course is beneficial preparation for art classes at Nicolet College.

## Metalsmithing & Sculpture

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art

This course explores various 3D mediums through hands-on exploration and state-of-the-art technology. You'll design using Aspire and Solidworks graphic software and create using the CNC router, plasma cutter, mini mill and 3D printer. The course focuses on crafting functional products and decorative works. It introduces foundational metalsmithing techniques including pewter casting, etching, wire forming and sheet metal designing. In addition, the course includes basic stained-glass leading, advanced glass etching and mixed media sculpture. Also, course will discuss related art history, design, presentation and terminology. Additional time outside of class will be necessary. You may be enrolled in another art class at the same time.

## Painting I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years JH art

This course explores realistic and expressive painting that challenges you to communicate creatively with others. It focuses on the following mediums: watercolor, acrylic, oil and mixed media. We'll discuss related art history, design, presentation and terminology. Additional time outside of class is necessary. You may be enrolled in another art class at the same time. Course is beneficial prep for art classes at Nicolet College.

## Painting II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Painting I

Painting II focuses on expressive strategies, marketing strategies and various mediums. It provides the opportunity to make lasting contributions, such as wall murals, to your local area while furthering your knowledge of art history, design, presentation and terminology. Additional time outside of class will be necessary. You may be enrolled in other art classes at the same time.

## Photography I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years of JH art

Photography I helps you turn snapshots into award-winning photos. It explores how cameras work, how to create visually pleasing compositions, and how to use professional software to edit photos. Also, course will discuss related art history, design, presentation and terminology. Additional time outside of class is necessary. You may be enrolled in another art class at the same time.

## Pottery I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years of JH art

Pottery I explores foundational hand-building, wheel throwing and decorating techniques. It provides the opportunity to make functional and decorative art pieces to keep or give as gifts. Also, course discusses related art history, design, presentation and terminology. Additional time outside of class will be necessary. You may be enrolled in other art classes at the same time.

## Pottery II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Pottery I

Pottery II challenges you to explore advanced hand-building and wheel-thrown techniques to create exquisite masterpieces. The course provides you with ideas for developing the expressive nature of your work and marketing your artwork. Additional time outside of class will be necessary. You may be enrolled in other art classes at the same time.

## Traditional & Graphic Design I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art or two years of JH art

This course guides you to develop eye-catching designs for pleasure or as a possible profession. It features traditional printmaking media including reduction printing, silkscreen printing and dry-point etching. Also, the course explores graphic design, including photography, using free and professional software. Also, course will discuss related art history, design, presentation and terminology. Additional time outside of class will be necessary. You may be enrolled in another art class at the same time.

## Traditional & Graphic Design II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Graphic Design I

This course builds on Traditional and Graphic Design I. It introduces advanced techniques including batiking and graphic design prototypes, such as product design. Also, the course provides tricks for marketing your work, catching your viewer's attention, and expressing your products. Additional time outside of class will be necessary. You may be enrolled in another art class at the same time.

## Advanced Art

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Basic Art and two art courses

Advanced Art can be taken after Basic Art plus two other art courses. The course offers you freedom to explore your area of interest in the arts, receive personalized instruction, as well as market your art. With this freedom comes the responsibility to be self-disciplined, motivated and interested in the arts. Also, course will discuss art theory, current events, history and design. This class can be taken with any other art classes except Basic Art or the other two classes that meet the prerequisite. Additional time outside of class will be necessary. This course is offered for a full year.

# Business

## MS Office

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

In businesses and college today, MS Office is the preferred software. Word is a powerful program that can help you create merged documents, graphic arts flyers, business letters, tables, labels, envelopes, tabs, columns, resumes, and so much more. Applications covered in this class include: spreadsheets using Excel, advanced presentations using PowerPoint, and Publisher for business desktop publishing.

## Business Concepts

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

This course is designed to introduce students to the many aspects of business. Some of the areas studied are: social responsibility and sustainability, business economics, human resources, management and leadership, entrepreneurship, marketing, business operations and financial planning. A special field trip of the Three Lakes downtown businesses will be included in the class. This trip gives the students the opportunity to speak with and get to know our local business members.

## Business and Personal Law

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Soph., junior or senior status

This is the only law class offered in this high school, and it is designed to introduce students to the basic legal principles relevant to their role as citizen, consumer and employee. Specific areas covered include crimes and torts, law for the minor, making binding agreements (contracts), buying and selling goods, insurance, landlord and tenant rights and responsibilities. Past and current court cases will also be studied to reinforce the legal principles.

## Personal Finance

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Junior or senior status

The goal of this introductory finance course is to help students become financially responsible, conscientious members of society. This course develops students' understanding in such areas as national debt, federal reserve, economic indicators, money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments and retirement planning. A field trip is offered to learn how to buy a car and house. This class prepares students for the state-wide Financial Investment Challenge in January.

## Accounting I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

This course is a must for students desiring to pursue any occupation in business. This course will introduce the general concepts of double entry accounting for proprietorships and partnerships. Students will study and construct basic financial reports such as balance sheets, capital statements and income statements.

## Accounting II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Accounting I or instructor consent

This course is designed as a second-year course to complete a one-year competency-based high school accounting program. The course goes into detail concerning merchandising business accounting, corporate accounting and automated accounting using QuickBooks accounting software.

## Accounting III

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Accounting II or instructor consent

This advanced course is for students who desire to pursue an occupation in business. The course is recommended for students serious about a business or accounting degree. Financial analysis is a main focus along with going further into detail concerning corporate accounting. QuickBooks accounting software is used to enhance the accounting experience.

## Business Independent Online Courses

In addition to the business classes listed here, please take a look at Page 23 for a full description of these independent courses:

- Independent Personal Finance
- Intro to Careers in Finance **(NEW FOR 2019-2020!)**
- Intro to Careers in Marketing **(NEW FOR 2019-2020!)**
- Intro to Careers in Law Enforcement **(NEW FOR 2019-2020!)**
- Small Business Entrepreneurship **(NEW FOR 2019-2020!)**

# English

## English 9

Required	Every day
Credit	1.0 (Year)
Prerequisite	Freshman status

English 9 is a required course that combines literature and developmental communication skills. The literature is a combination of classical, traditional and modern selections used to develop an understanding and appreciation of the written language. Each unit of study contains literacy techniques, language and composition. Units of study include: *Romeo and Juliet*; *To Kill a Mockingbird* and other independent readings; public speaking and listening skills; writing skills including expository, descriptive, persuasive and narrative writing.

## English 10

Required	Every day
Credit	1.0 (Year)
Prerequisite	Sophomore status

English 10 is a continuation of literary skills developed in English 9. The primary focus of study in literature is to question the motivation and intent of the authors and their ideas. Units of study include: the short story; Chinua Achebe's *Things Fall Apart*, modern drama, *A Raisin in the Sun*; and *Adventures of Huckleberry Finn*. In preparation for a major research paper in English 11, a short introductory research paper is required. Public speaking and basic writing skills are continued. A career awareness program is presented, and a career exploration paper is required.

## English 11/American Literature

Required	Every day
Credit	1.0 (Year)
Prerequisite	Junior status

English 11 is a comprehensive study of U.S. literature. Students are introduced to a collection of famous authors through both biographies and writings. Students will learn the connection between historical events and the literature of the time. Benjamin Franklin, Ralph Waldo Emerson, Edgar Allan Poe, Mark Twain, Emily Dickinson and John Steinbeck are featured. Works such as "Rip van Winkle," "The Fall of the House of Usher," *Of Mice and Men*, *Walden*, and *The Great Gatsby* may be studied. In addition, students will continue to improve their writing and speaking skills and do hands-on projects. A research paper is undertaken this year.

## English Literature 12

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Senior status

English Literature 12 is designed to combine the literature of Britain with world literature. Seniors will be introduced to parts of challenging works such as *Macbeth*, *Beowulf*, *The Canterbury Tales*, *A Doll's House*, and *And Then There Were None*. Chaucer, Shakespeare, Christie, Ibsen and Tolstoy will become familiar names. Students will engage in individual and group projects along with discussions in these areas. Writing and grammar instruction will continue to prepare students for their future beyond high school.

## Senior English

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Senior status

Senior English is a course designed to be comprehensive and usable for post-secondary education and beyond. It is a blend of thinking, listening and writing skills interwoven to prepare students for the world outside the high school classroom. Weekly spelling tests, vocabulary building, career opportunity viewing and grammar review are some areas of study. Reading for recreational purposes is reintroduced to students. This class is an excellent option for students who intend to enter the workforce or pursue vocational training after graduation.

## Write for College

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Senior status

The focus of this course is to develop writing skills and compose different types of papers for a range of purposes and audiences. This course will let students explore and practice descriptive, narrative, persuasive or expository styles as they write paragraphs, essays, letters, and formal documented papers. Some creative writing opportunities are possible.



# Family & Consumer Sciences

## Child & Parenting I

Required	Every other day
Credit	1.0 (Year)
Prerequisite	Soph., junior or senior status

This course covers the importance of pregnancy, childbirth and parenthood. Planning for children and understanding their development at each stage of growth and development from conception through infancy is studied in depth. Coursework includes physical, emotional, social and intellectual development from birth to age 1. Also, a required baby simulation project will help emphasize topics learned about infants and their proper care

## Child & Parenting II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Child and Parenting I and Grade 11& 12

This course covers the development of children at each stage of growth and development from age 1 through their adolescent years. Coursework includes physical, emotional, social, moral and intellectual development. To emphasize these concepts, students will observe and/or work with young children in Tiny Tykes Day Care and with Three Lakes Elementary students.

## Clothing Constructions I

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	None

This course gives students an opportunity to review sewing skills learned in FACS Block 7 class by using computerized machines to create three projects. Students will make a pair of fleece mittens or hat, pajama pants and a skills-appropriate project of their choice. Reading and following directions are the skills learned that could be applied to all disciplines.

## Clothing Constructions II

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Clothing Constructions I

This course continues to give students the opportunity to advance their sewing skills. This class will focus on the completion of several advanced, independent projects.

## Yesterday-Today

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	None

With resources from the community, students will learn how products were made before the Industrial Revolution. This includes: homemade canning, quilting, crocheting, knitting and other traditional trades from the past. This class lets community members contribute to the next generation and pass down traditions/trades before they are lost forever.

## Independent Living

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	None

Students will learn skills needed for living on their own. This course challenges students to use their math, English and science skills in everyday life — now and in the future. This includes managing personal and family life, finances, budgets, insurances, credit/debit cards, checking and savings accounts, clothing care and repair, career exploration, and many more skills.

## Family Living

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	None

This course helps students understand their current family structure/role, prepare them for future family prospects/roles and the various stages of family life cycle. Students will discuss family planning, dual-working parents, family abuse, parent-child communication, dealing w/teens and their problems, divorce, blended families, the effects of alcohol and drugs on the family unit, and coping with aging and death. Class experiences include informal class discussion, guest speakers and various projects. This is a practical class for those interested in learning about family issues.

## Personal Relationships

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	None

This course stresses the importance of building healthy personal relationships with one's family and peer groups. Students will learn how to develop a positive self-concept and how it affects other relationships. Personality development, communication and coping skills, dealing with teens and their problems, dating expectations and trends, love and infatuation, mate choices, engagement practices, weddings and current lifestyles will be discussed. Informal discussions will be an important aspect of this class.

## Foods I

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Grades 9-10

Students will learn basic knowledge associated with nutrition and will apply it to lab procedures and techniques of simple food preparation. Topics of study includes food safety and sanitation, kitchen safety, nutrition, lab procedures and preparation techniques of meats, yeast breads, sandwiches, pizza, poultry, biscuits, and dairy, just to mention a few. Also, we conduct a holiday cookie/candy sale to raise funds for an educational, end-of-the year field trip.

## Foods II

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Foods I, Grades 9-10

Students will learn intermediate nutrition, food preparation skills and techniques. They will gain additional knowledge associated with intermediate meal planning, preparation and etiquette, ChooseMyPlate info, food trends and foods for athletes. Topics of study include breakfast, soups, fish, convenience foods, microwave cooking, fruits/vegetables, muffins, desserts and outdoor cookery.

## Advanced Foods

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Foods I and II, Grades 11-12

Students will learn advanced nutrition, food safety and sanitation, food preparation skills, and entertainment/catering techniques. Students will discuss and apply knowledge associated with advanced meal planning and preparation. Topics of study include fruit carving, cake decorating, pizza variations, vegetarian lifestyles, casseroles and holiday candies. Also, students will participate in two in-class food competitions and observe/help in the school's food service area to learn about the commercial food industry.

## International Foods

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Foods I and II, Advanced Foods, Grades 11-12

Students will experience gourmet foods from several different foreign/domestic regions such as Latin America, Europe, Mediterranean, Middle East, Africa, U.S. and Canada. Students will explore the cultural influences on nutrition, regional traditions and eating patterns. We will tour the world through food selections, planning, preparations and tasting, and an international cookbook will be produced that includes photographs and recipes.

## FACS About the Future, From A To Z, Part I & II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grade 12

Seniors will soon be going into the real world. Are they ready? This class is designed to cover the basic necessities they need as a refresher or they didn't acquire during high school. This class may cover information from cooking a simple, nutritious meal to sewing on a button to balancing a checkbook to effective communication skills. The subjects covered will be driven partly by what students need/want to know before graduating and being on their own so they can be successful and productive citizens.

## Fashion Merchandising

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	None

This class is for anybody interested in fashion and clothing. Students will be exposed to various ideas related to fashion trends, clothing selection and care, clothing design, display and retailing aspects, and their buying power.

## Interior Design

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	None

Whether you are interested in interior design as a career, are looking for practical knowledge to apply to future housing, or enjoy creating your dream house, this course is for you. Topics include personality and style, elements and principles of design, color, backgrounds, floor plans and accessories. Students will enjoy hands-on creative opportunities using models, real materials and computer programs.

# Math

State standards include geometry. Therefore, it is recommended students complete coursework through geometry in the mathematics area. Although no one class is required, students must take three credits of math to graduate.

## Algebra IA

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Math 8

This is the first year of a two-year sequence to Algebra I. The course includes the study of real numbers, algebraic expressions, linear equations and functions, systems of equations, and inequalities. This course will only be offered during high school.

## Algebra IB

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Sophomore, junior, senior and Algebra IA

This is the second year of the two-year sequence for Algebra I. The course includes the study of quadratic equations, factoring, exponent properties, polynomials, rational expressions, radicals, probability, and an introduction to concepts of geometry. Upon completion of Algebra IA and Algebra IB, students will have fulfilled the prerequisite for geometry.

## Algebra I

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Math 8 or instructor's consent

This course includes the study of real numbers, algebraic expressions, linear equations and functions, linear inequalities, quadratic equations, factoring, exponent properties, polynomials, rational expressions, radicals, probability, and an introduction to concepts of geometry. If this course is taken as an 8th grader, high school credit can be earned. This allows for acceleration to more advanced courses, and completion of the course will be noted on the student's transcript.

## Geometry

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Algebra I or Algebra IB

This class studies basic math systems, axioms, postulates, definitions, theorems, inductive and deductive reasoning, including informal, formal and indirect proofs. Students develop geometric intuition and visual representation, deductive reasoning skills, including writing of proofs and recognizing properties and relationships of common geometric figures. Topics include polygons, congruent and similar figures, surface area and volume, constructions, circles, trigonometry and transformations.

## Algebra II

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Algebra I, geometry

This course is a continuation and intensification of Algebra I. Topics include sets, equations and inequalities in one variable, equations and inequalities in two or more dimensions, operations with irrational and complex numbers, and the quadratic equation. May be taken concurrently with geometry.

## Trigonometry/Pre-Calculus

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Soph., junior or senior plus geometry/Algebra II

This course begins with a review of Algebra II and continues on to definitions of relationships among the parts of figures in the plane from which trig functions are derived. There is much work with identities and with trig functions to solve physical problems involving distances, areas, shapes, double angles and complex numbers. The second half focuses on linear and quadratic functions, polynomial functions, conic sections, logarithms, analytic geometry, the use of determinants, sequences and series, matrices, combinations, probability, statistics, limits of a function, and derivatives of a curve.

## Advanced Placement Calculus

Elective	Every Day
Credit	1.0 (Year)
Prerequisite	Trigonometry/Pre-Calculus

This course introduces students to the concepts in differential and integral calculus. Topics include limits, differentiation of the polynomial and trigonometric functions, the rules of differentiation for sums, products, quotients and compositions, applications of the derivative to find slopes, extrema, concavity and related rates, integration, and applications of integration such as area, work, volumes and pressure. A graphing calculator is required; the TI-83 Plus or TI-84 Plus is recommended.

## Applied Math

Elective	Every Day
Credit	1.0 (Year)
Prerequisite	Two credits in math

Applied Math reviews all areas of mathematics previously covered, as well as new topics that are useful for completing the Accuplacer and/or the ACT. Much will be done using technology, including online lectures and examples, problem solving, gaming and reporting and evaluating information.

# Music

## Concert Band

Elective	Every day or every other day
Credit	1.0 (Year)
Prerequisite	Beginning & Jr. High Band or consent

This class is offered to students in grades 9-12 and meets every other day. Student progress is assessed through rehearsal preparation and public performances. Objectives include gaining greater proficiency on an instrument, a greater understanding of musical styles and methods, and providing services to the school and community. This is achieved through daily rehearsals and practice, participation in concerts, festivals, solo/ensemble contest, pep band and marching band/community parades.

## Jazz Band

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Enrolled in concert band or consent

This class is offered to students in grades 9-12 who are enrolled in Concert Band. Objectives of this course include gaining an appreciation for various jazz styles and form through listening, performing and experiencing beginning improvisation. Students will be required to participate in concerts and solo/ensemble competition.

## Concert Chorus

Elective	Every Day
Credit	1.0 (Year)
Prerequisite	None

This class is open to all students in grades 9-12, meets five days a week, and can be taken on a semester basis. There is no prerequisite for this class, but it is to the student's advantage to have had some choral experience in junior high. The curriculum focuses on meeting the needs of the individual as part of a performing group.

The desired outcomes of this class are: an increased appreciation of music, the ability to read various musical styles, enjoyment in participating in large group performances, and knowledge of performance etiquette. Because this is a performance-oriented class, students are expected to perform in at least two concerts per semester. The students will also have an opportunity to participate in solo/ensemble, a WSMA sponsored event, and will be required to participate in Large Group Festival as well as several community performances. Participation in high school choir qualifies juniors and seniors to be nominated to attend the Dorian Vocal Festival at Luther College in Decorah, Iowa.

# Phy. Ed.

## Physical Education

Required	Every other day
Credit	1.0 (Year)
Prerequisite	None

Students participate in various units related to team and racquet sports, individual activities and lifetime fitness. Students will also participate in a weekly fitness circuit. Units may consist of: soccer, volleyball, softball, golf, disc golf, weight training, spinning, snowshoeing, inline skating, archery, climbing, badminton and tennis.

## Personal Fitness

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grades 11-12

This course has a cardio and weight-training emphasis. Students will learn fitness and training principles and apply knowledge in development of a fitness program that helps them pursue appropriate personal fitness goals. Students will use technology that aids in the effectiveness of workouts and monitor their progress using knowledge of various fitness indicators.

## Movement for Wellness

Elective	Every other day
Credit	.5 (Sem)
Prerequisite	Grades 11-12

Through various movement forms, students will participate in moderate physical activity while striving for an enhanced level of personal physical fitness. Activities vary by season and may include: walking, hiking, snowshoeing, spinning and dance.

## Senior Gym

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grade 12

This course is only available to students as a fourth physical education credit. Students enrolling in this course should enjoy participating in competitive, fast-paced games, activities and challenges. Students have the opportunity at the start of each semester to provide input for units that will be covered.

## Independent Study Physical Education

Elective	Varies
Credit	1.0 (Year)
Prerequisite	Grade 11-12

This course gives students the opportunity to independently earn one physical education credit in an alternative setting from courses offered by TLHS. Students are responsible for completing (and getting verification for) a minimum of 7.5 hours every three weeks. In addition, students must satisfactorily complete all additional assignments including goal sheets, fitness/activity logs, benefits analysis and reflection papers.

Open to students in grades 11-12 who are approved by the guidance and physical education departments (not all students who request independent study will qualify).

## Food and Fitness

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

A classroom and lab-based class that will explore healthy eating and living. A combination of food labs, classroom work and exercise will take place throughout. We will learn about and make healthy foods, as well as learn the benefits of exercise and work toward individualized fitness goals.

# Programming

## Computer Programming I

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Juniors/Seniors. Sophomores with consent.

This course is an introduction to the concepts of programming using the Scratch Programming Language developed by MIT. This language is graphical in nature and lets students experience programming without syntax errors. The class then moves on to JavaScript and a unit with Lego Robot design and programming. Students will use several resources throughout this course including Khan Academy and Code Academy.

## Computer Programming II

Elective	Every other day
Credit	.5 (second semester)
Prerequisite	Computer Programming I

This course is a follow-up on the programming techniques learned in Computer Programming I. The techniques learned are then applied to more advanced topics in JavaScript. Topics covered include: variables, math operations, input/output, decision making, loops and functions.

## Computer Programming III & IV

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Computer Programming II

This course is designed to be an individualized class where students work with various languages, including Java, JavaScript, C++ and C#. The course projects and assignments will be more difficult and intricate than those in Programming II and may be used to apply to real-world applications such as programming for the Xbox Kinect and the use of electronics such as arduino boards. Students will work in Java or Flash ActionScript. Course projects and assignments will be more difficult and intricate than those in Programming II. (III – 1st Semester/ IV – 2nd Semester - each 0.5 credits)

# Science

## Physical Science

Required	Every day
Credit	1.0 (Year)
Prerequisite	Freshman status

This course is an introduction to the basic concepts of chemistry and physics with ties to environmental science. There is an emphasis on lab work and research on how these three areas are important to our everyday lives.

## Biology

Required	Every day
Credit	1.0 (Year)
Prerequisite	Physical Science

This course surveys the wonderful world of biology. Major areas of focus are: cell biology, botany, zoology and ecology. These topics will be taught and enhanced through labs, demonstrations and projects. Students will be better able to understand the natural world around them and their place within it.

## Human Biology

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Jr./Sr. Sophomore with consent

This advanced course is meant for students who intend to pursue biomedical or related fields. Course content includes the body as a whole, support and movement, communication, control and integration. Other topics include transportation, energy supply and waste excretion, reproduction, defense and adaptation. Lab activities include bone ID, anatomy and physiology of heart, lungs, kidneys, joints, and blood pressure determination. This course offers a challenge to any high school student interested in human biology.

## Advanced Placement Biology

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Two semesters bio., chem., and senior status

After completing this course, students should be able to successfully take the Advanced Placement Biology Test that many colleges and universities accept in place of freshman level biology, allowing credit on a college transcript. The major emphasis of this class will be college-level cell biology, genetics and biotechnology.

## Chemistry

Elective	Every day
Credit	1.0 (Year)
Prerequisite:	Algebra I

This course deals with the structure of matter, relationships between energy and chemical reactions, and lab work illustrating and emphasizing these principles. The class focuses on problem-solving using terminology and chemical symbols. Therefore, a good background in Algebra I is required.

## Chemistry II

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Chemistry I

Chemistry II picks up where Chemistry I leaves off. Topics covered include thermochemistry, entropy/enthalpy, reaction rates, solution chemistry, equilibrium, acids and bases, electrochemistry and an introduction to organic chemistry. This class is a hybrid class, meaning it combines online and face-to-face time. The class will also feature considerable lab work. This class is for students who have completed Chemistry.

## Physics

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Algebra I & II, geometry, and trig enrollment

This is a traditional physics course concentrating on problem-solving in units on mechanics, periodic motion, heat, sound, light, waves, magnetism, electricity and nuclear reactions. Lab work is done in all units except nuclear reaction to reinforce the fact that physics is an experimental science as well as theoretical.

## Global Science

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Junior or senior status

This course will cover topics involving conservation, environmental issues, outdoor education, natural resource use and management, energy sources and local issues. This course is taught through research projects, individual research, and hands-on activities to show mastery of related skills.

## Integrated Science

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

Integrated Science pulls principles from several different sciences – earth science, physical science, biology, chemistry and physics – to study themes and phenomena from the world around us. Real-life problems and projects will be studied and completed to demonstrate the interaction of scientific principles.

# Social Studies

## Civics

Required	Every day
Credit	1.0 (Year)
Prerequisite	None

This course covers civics, which deals with government and citizenship. Units include political and economic systems, the U.S. Constitution and Bill of Rights, our federal, state and local governments, crime and law enforcement, elections and voting, and taxation.

## World History

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grade 10

World History is a full-year class that takes a global approach to providing students with basic knowledge of Eastern and Western civilizations. As students gain insights into the relationships among people, ideas and events, they will better understand and appreciate the contributions of non-Western civilizations. Some emphasis will be placed on current events.

## American Studies

Required	Every day
Credit	1.0 (Year)
Prerequisite	Grade 11

The major emphases in this course are the political, economic and social experiences of the American people in the 20th and 21st centuries. The first nine weeks of the course will include a review of basic trends and concepts of pre-20th Century America. This course includes an emphasis on current events.

## Economics

Required	Every day
Credit	0.5 (1st sem)
Prerequisite:	Grade 12. With approval, Grade 11

This is a semester course focusing on the broad study of economics. The objective of an economic education is to provide students with adequate information about economic principles to understand and make reasoned judgments about major economic questions facing society and themselves as members of that society.

### NEW FOR 2019-2020!

## Cultures and Societies

Elective	Every other day
Credit	1.0 (all year)
Prerequisite:	Grades 11-12

How does culture shape our social world and society shape our cultures? This class will help students gain a global understanding of the sociology of culture through the exploration of stories, beliefs, media, ideas, art, fashion, rituals and religious practices. Students will develop a deeper appreciation of culture and society, developing insights that will help them become effective world citizens.

## Psychology

Required	Every day
Credit	0.5 (2nd sem)
Prerequisite	Grade 12. With approval, Grade 11

Psychology is a semester course that focuses on a broad study of psychology — the science of human behavior. Incorporated in this course is an overview of the benefits of studying psychology, personality development, how people learn, the individual and society, and strategies for coping.

## Advanced U.S. History

Elective	Every day
Credit	1.0 (Year)
Prerequisite	Grade 12. With approval, Grade 11

This advanced level college prep course is designed to model a typical freshman college course. Units of study will trace U.S. historical experiences from post-World War II to the present. The course challenges students with college-level material and experiences, such as research, writing, testing, and critical and analytical thinking.

## 20th (and 21st) Century Wars and Revolutions

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grades 11-12

20th Century Wars and Revolutions gives students an in-depth look at WWI, WWII, Korea, Vietnam, the Cold War (arms race/nuclear issues), Middle East conflicts, terrorism, and different revolutions within this time period. Major emphasis will be placed on the cause and effect of war and/or revolution. As each event is discussed, specific events and personalities will be focused upon with video supplementing lecture notes, class discussions and readings.

## Social Technology Applications

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Grades 11-12

This class will address 21st Century communications and its social/historical implications. Possible applications include: Web 2.0 tools, YouTube, podcasting, blogging, Twitter, green-screen technology. The main structure of this course will involve a fluid curriculum that attempts to focus on current social communication technologies in our lives and work-related technology tools. The social implications of the use and misuse of technology will be explored.



# Spanish

## Spanish IA

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	None

This course begins with a review of the material covered in the Block 8 class and builds upon skills already introduced. Students master basic skills in listening, speaking, reading and writing in Spanish. Time is spent discussing the practical applications of Spanish and the various Spanish-speaking subcultures in the U.S. Cultural comparisons are made in an attempt to understand our own culture in relation to others. Spelling and grammar usage are covered strongly and represent a good part of the student's grade.

## Spanish IB

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish IA

This semester continues with a review of the material covered in Spanish IA and builds upon skills already introduced. Students continue to master basic skills in listening, speaking, reading and writing in Spanish. Cultural and geography of Spanish-speaking countries are a focus, while spelling and grammar usage continue to be an important aspect. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish IIA

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Spanish IA/B

During this class, students continue to learn Spanish grammar while increasing vocabulary. There will be many partner and small group conversations and dialogues throughout this semester-long course. This class lets students begin true communication in a second language, using the past tense, indirect/direct object pronouns and other grammatical phrases. Students will continue to learn about foods, customs, music and culture of other countries, specifically Spain, Panama, Costa Rica and Argentina. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish IIB

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish IA/B, IIA

During this semester, the student continues to cover Spanish grammar and increase vocabulary. Each student will be expected to present projects and speeches to the class in Spanish along with continuing to converse in the target language with partners and small groups. Spanish IIB focuses on the grammar and usage of the past tense and completed actions or facts in the past. Students will demonstrate knowledge of the ancient civilizations of Mexico, along with studying other countries and cultures. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish IIIA

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Spanish IA/B, IIA/B

This class is composed of group and individual activities. Class activities encourage the improvement of listening and speaking skills. Writing skills are improved through weekly compositions and journal writing. This increases in length and difficulty according to individual ability. DVDs, CDs and guest speakers will introduce students to the real world of communication in Spanish. Reading progresses from selections written especially for secondary level students to short stories and other works written by recognized authors of Hispanic literature. Students enrolled at this level or above may choose to travel with the International Travel Club to a foreign country during spring break.

## Spanish IIIB

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish IA/B, IIA/B, IIIA

This class, like IIIA, is composed of group and individual activities. Class activities encourage improvement of listening and speaking skills. Writing skills are improved through weekly compositions and journal writing. This increases in length and difficulty according to individual ability. Students are introduced to Mexican and Spanish literature during this level, along with reading online and printed newspapers and magazines from other Spanish-speaking countries. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish IVA

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Spanish I, II, III

During this semester-long class, a great deal of emphasis is put on the grammar and variety of verb conjugations to better prepare students for college placement tests. Students who continue with Spanish in their senior year have a better chance of testing out of college Spanish credits at a university. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish IVB

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish I, II, III

Creative writing along with reports and presentations will be done in the target language during this class. Small group dialogues and conversations continue at a more in-depth level. Various literature is sampled, including that of Spain, South America, Central America, Mexico and Chicano. Selections vary in an attempt to consider the interests and abilities of the students. Readings will increase in difficulty and discussions will proceed from grammar and composition to content and concepts. Students enrolled at this level or above may travel with the International Travel Club to a foreign country during spring break.

## Spanish Culture & Customs\*

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Spanish IA/B, IIA/B
*must be taken concurrently with Spanish III or IV	

This class takes an in-depth look at the culture and customs of all 21 Spanish-speaking countries. There will be written papers and oral presentations in Spanish and English comparing and contrasting these customs. Topics studied include foods, music, religion, schools, transportation, clothing and fashion, sports and recreation, kids and family, and holidays and festivals.

## Spanish Literature & Film\*

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish IA/B, IIA/B
* Must be taken concurrently with Spanish III or IV	

This class is a combination of reading, translating and writing Hispanic literature. Vocabulary, grammar, tests and quizzes will be based on the current novel or story being read. Some stories and novels may also be shown in video format in the native language. Stories include but are not limited to: *El Cid* (movie & book), *Don Quixote* (movie & book), *Lazarillo* (book), *Under the Same Moon* (movie), *Telenovelas* (video), *Nemo* (worksheet, video, book)

## Spanish World Connections & Elem. Teaching\*

Elective	Every other day
Credit	.5 (1st semester)
Prerequisite	Spanish IA/B, IIA/B
* Must be taken concurrently with Spanish III or IV	

This class focuses on breaking down the barriers of international communication. Students will meet and connect with international students using various forms of technology. Students will create projects and presentations using MacBook, iPod Touch, Skype, video chat and more. Certain projects will involve pen-pals or epals with international students. Students will conduct interviews with and listen to speeches from local native speakers. Students will also teach Three Lakes Elementary students basic Spanish words and phrases.

## Spanish Civilization\*

Elective	Every other day
Credit	.5 (2nd semester)
Prerequisite	Spanish IA/B, IIA/B
Must be taken concurrently with Spanish III or IV	

This semester-long class will focus on Spanish history and conquests in Central and South America. Most lectures will be conducted in Spanish, and students will be responsible for learning facts and dates of history in the target language. Some units include, but are not limited to: Spain, Isabel & Ferdinand the Rise and Fall of a Kingdom; Mexico — Aztec, Mayans, Toltecs, Cortes, Central and South America — how and when they got their independence.

# Tech Ed

## Engineering and Design Technology

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

This course is required before taking any other technology education course with the exception of How To Make Almost Anything and Manufacturing & Marketing. The class is designed to study technology and its history and effect on our society. Technological systems and the resources they use will be covered through activities in communication, transportation, manufacturing and construction. Activities include work with basic drafting, 3D modeling, mechanisms, robotics (Lego Mindstorm), computer-designed bridge building and various design problems. Students will become more technologically literate and have more career awareness. The main objective is to build a foundation for other courses offered in Tech. Ed. A lab fee is required.

## Drafting and Design with Solid Works

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Eng. and Design or junior or senior status

This class provides the practices and techniques used by drafters and covers orthographic projection, multiview drawings, dimensioning, section views, pictorial drawings and other views associated with drafting. We will use Solid Works, a computer-aided drafting program, along with other techniques. We will also cover how to read blueprints and technical drawings, thus learning skills for the building, construction and technical trade industries.

## Small Gas Engines

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Eng. and Design, Wood Tech or junior or senior

This course will provide students and aspiring technicians with practical information about small-gas engine theory, construction, operation, lubrication, maintenance, troubleshooting, service, rebuilding, and repair. Students do hands-on activities with small gas engines, i.e., tearing them completely down and rebuilding them. They must get engines working properly. There will also be a testing of basic knowledge of small engine components.

## Wood Technologies and Processes

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	None

Wood Technologies is a basic machine woodworking course where students learn to safely operate common woodworking machines as well as a CNC machine. They will understand operations and procedures related to woodworking including: wood machining, joinery, assembly, mass production, applying finishes. Employability skills are stressed in this class including: problem-solving, working in a team, communicating effectively, using lab time efficiently. Safety is stressed throughout the course. Mass production concepts are used in making the first project. Skill development is stressed during the construction of the second project. Effort and quality of workmanship are also a large part of this class. Two projects are generally expected. The first costs about \$35, and the second costs \$40 to \$100 or more.

## Furniture and Cabinetmaking

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Wood Tech.

Furniture and Cabinetmaking will begin with an overview of all machine operation and safety. Each student will be required to make a major personal project such as a clock, gun cabinet, china cabinet or chest of drawers. Students may also be involved in service projects for the district. Students will execute more difficult procedures such as complex joints and raised panel doors. Students will also produce a product on the CNC router. Students will be evaluated on effort, participation, workmanship and basic employability skills.

## Metals and Welding Technology I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Eng. and Design, Wood Tech, or junior or senior

This class is a skills development course in the following areas: oxy-acetylene welding, arc welding in both SMAW and GMAW and plasma cutting. Machines used are: drill press, metal band saw, miter/chop saw, Bridgeport milling machine and introduction to NC machining. Students will also design and create a project on the CNC plasma cutter. The welding component has 14 required welds and the machine shop component has one required project. Students work at their own pace, and they will fabricate projects of their own design. Grading is based on good craftsmanship, cooperation and constant effort. A lab fee is required.

## Metals and Welding Technology II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite:	Metals Technology I with a D or better

This course involves the planning and construction of a metalwork project. The student will learn how to operate and care for different metal-working machines along with welding processes, machining and equipment. Related information on design, metals, tools and processes will provide a background of understanding with the welding and metalwork industry. Each student will have to design and create a larger project out of metal using proper techniques. A lab fee is required.

# Electives

## How To Make Almost Anything

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Geometry, grades 10-12

How to Make Almost Anything emphasizes students' exposure to and understanding of new and emerging technologies. The range of technological issues varies widely but typically includes lasers, fiber optics, electronics, robotics, computer technologies, CAD/CAM, communication modalities and transportation technologies. Students taking HTMAA will also receive one science credit upon successful completion of the course. A lab fee is required.

## How To Make (Almost) Anything Electrical

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	How to Make (Almost) Anything

Students will conceive, design, build, test, improve and share electrical projects, both teacher-directed and of their own choosing. These projects will encompass DC, AC, analog and digital technologies. This course builds on making skills developed in How to Make (Almost) Anything providing students opportunities to make things electrical. Students will make a final project of their own choosing that uses analog and digital electronics.

## Marketing & Manufacturing

Elective	Every other day
Credit	1.0 (Year)
Prerequisite:	HTAA, Junior / Senior Status

In this class students will set up a manufacturing enterprise, including an organizational structure. An organization will be put in place, and a product to manufacture will be chosen. As part of the process, the student company will compare a proposed product with similar products in the market in terms of features and price. Students will be required to design the product to ensure it has the same or better quality and same or lower price point than similar products. Students will put together a business plan, market, manufacture and distribute their product. After sales are completed, students must state whether their company made or lost money.

## Yearbook I

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	JH Art, Basic Art or instructor approval

Transform your snapshots into professional-quality photos. You will learn through hands-on experience producing a school yearbook. In addition to impressing your friends on social media with your abilities, you will learn tricks to take awesome photos, create digital design layouts, edit photos, build skills for your future career, and advertise your art. Some time outside of class will be necessary.

## Yearbook II

Elective	Every other day
Credit	1.0 (Year)
Prerequisite	Yearbook I

This course builds on Yearbook I. You will learn through hands-on experience, such as creating the school yearbook. Throughout your year, you will learn tricks to take dramatic photos, create design layouts using professional software, enhance photos with professional software, prepare for related careers, and make money marketing your art. Some time outside of class will be necessary.

# Independent Study

Independent study courses are a great way for students to personalize their education at Three Lakes High School. These options, which feature student-driven learning, let students strengthen college applications, prepare for future jobs and explore areas of personal interest. Independent study courses are, as the name implies, under less supervision and direction than a typical class. These courses are open to junior and seniors with instructor approval.

## Astronomy

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior with instructor consent

Astronomy is the scientific study of the contents of the entire universe. This course helps students develop a knowledge and understanding of the solar system, galaxy and universe in which we live. Coursework consists of classroom work and an observational component, which will lead to a research paper.

## Survey of Astronomy

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior w/instructor approval

This independent online course is an introduction survey class about the major topics of ecology. Students will attend online lectures and complete various projects related to eclipses, tides, planets, asteroids, comets and more. Students will complete a major capstone project to culminate the course.

## Survey of Ecology

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior w/instructor approval

This independent online course is an introduction survey class of the major topics of ecology. Students will attend online lectures and complete various projects related to topics covered. Students will complete a major capstone project to culminate the course.

## Survey of Geology

Elective	One semester
Credit	Up to 1.0
Prerequisite	Junior/Senior w/instructor approval

This independent online course is an introduction survey class about the major topics of geology. Students will have attend online lectures and complete various projects related to topics such as rocks and minerals, earth's energy resources, plate tectonics, earth's ecosystems and more. Students will complete a major capstone project to culminate the course.

## Global Science 2

Elective	
Credit	Up to 1.0
Prerequisite	Global Science 1. Junior/Senior status

Global Science 2 is a continuation of Global Science 1. Global 2 lets students further develop advanced skills in environmental, outdoor education and natural resource use and conservation. Class may or may not be an independent study option, which would allow for specific topics of interest to be addressed.

## Human Biology

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior w/instructor approval

This independent online course is an introduction survey class about the major topics of human biology. Students will attend online lectures and complete various projects related to topics such as cell functions, skin and linings, and the skeletal, muscular, nervous and digestive systems. Students will complete a major capstone project to culminate the course.

## Organic Chemistry

Elective	
Credit	Up to 1.0
Prerequisite	Chemistry 1. Junior/Senior status

Organic Chemistry is for the college-bound student who has completed chemistry and wants an introduction to classes of organic compounds, focusing primarily on the basic principles to understand the structure and reactivity of organic molecules.

## How to Make (Almost) Anything 2

Elective	
Credit	Up to 1.0
Prerequisite	HTMAA. Junior/Senior status

HTMAA 2 builds off of student skills learned in HTMAA 1. Students will work to build bigger projects, and they'll delve into software and manufacturing processes. Students will also act as mentors for students in HTMAA 1.

## Independent Personal Finance

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior with instructor approval

This introductory finance course helps students become financially responsible, conscientious members of society. This is accomplished through an online component, working with the instructor on an independent basis to understand basic financial concepts: debt, Federal Reserve, economic indicators, money management and financial goal attainment, the wise use of credit, banking, taxes, insurance, investments and retirement planning.

### NEW FOR 2019-2020!

## Intro to Careers in Finance

Elective	Online Independent Class
Credit	1.0
Prerequisite	Personal Finance

This independent study course explores the fundamentals of the financial services industry as well as jobs and career opportunities within finance. Students will learn about opportunities in financial services, securities analysis and investments, corporate finance, banking services and risk management and insurance.

## Intro to Careers in Marketing

Elective	Online Independent Class
Credit	1.0
Prerequisite	Business Concepts

In this independent online study course, students will develop a fundamental understanding of marketing principles. They will be able to explain the marketing process, marketing strategic planning, the marketing environment, and the trends, opportunities and challenges in the marketing world today.

## Intro to Careers in Law Enforcement

Elective	Online Independent Class
Credit	1.0
Prerequisite	Business Law

This course introduces students to the field of law enforcement as well as local, county, state and federal laws. Students will learn about the history of law enforcement, the background requirements needed for a career in law enforcement, the history and scope of federal law agencies, and the technological advances that have changed how law enforcement agents enforce laws.

## Small Business Entrepreneurship

Elective	Online Independent Class
Credit	1.0 (one semester)
Prerequisite	Business Concepts

This semester-long course provides the skills needed to effectively organize, develop, create and manage a business. Students will dive into financing, marketing and managing. This course is designed to give students an overview of running a business from start to finish.

## Build Your Own History Course

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior with instructor approval

This is an independent study course for students who want to investigate and research historical topics based on individual interest. This course will require the student to work independently — with the guidance of the instructor — to meet ascertained requirements.

## History v. Hollywood

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior with instructor approval

An independent study course for those who want to watch movies based on historical events. Students will then be expected to determine the historical accuracy of the movie by researching the topic of the movie.

## Come Fly!

Elective	
Credit	Up to 1.0
Prerequisite	Junior/Senior w/instructor approval

This independent study course with the Experimental Aircraft Association provides the knowledge you need to take the written test toward an FAA license to commercially fly a USA (drone) or a private pilot license for fixed-wing aircraft. Through this course, you'll become a Young Eagle and receive a free first flight lesson. You'll also participate in activities with Northwoods EAA Chapter 1577, including the annual chapter trip to EAA Air Venture in Oshkosh.

The following courses are also available as independent study options depending on class size and enrollment. Please find a full description of these courses under their subject areas.

- Child & Parenting II
- Airbrush 1
- Airbrush 2
- Drawing 1
- Drawing 2
- Metalsmithing & Sculpture
- Paint 1
- Paint 2
- Photo 1
- Pottery 2
- Traditional & Graphic Design 1
- Traditional & Graphic Design 2
- Advanced Art

# School to Work

## Job Shadowing

Elective	Meets as required.
Credit	None
Prerequisite	Jr/Sr status.

Students in grades 11-12 can gain experience in a chosen career path by participating in a job shadow placement. Job shadows are a short-term opportunity for students to investigate a career through planned on-the-job visitations. Students will tour job sites to gain a better understanding of careers that may be of interest to them. To arrange a job-shadow experience, students should meet with the guidance counselor.

## Mentorship

Elective	Meets as required.
Credit	Varies
Prerequisite	Jr/Sr status.

Mentorship is an opportunity for students who are highly motivated, self-directed and who have exceptional ability and interest in a particular career field, to investigate a career interest through planned on-the-job visitations at their chosen field. Students will be matched with an adult mentor. An individual plan, developed by the students, mentor and school counselor will guide the experience. The program requires 45 hours in a workplace setting over the space of two semesters.

## Youth Apprenticeship

Elective	Meets as required.
Credit	Varies
Prerequisite	Jr/Sr status.

Wisconsin's Youth Apprenticeship program is designed for high school students who want hands-on learning in an occupational area at a worksite along with classroom instruction. Students are instructed by qualified teachers and skilled worksite mentors. Apprenticeships are available in 11 different career clusters. Students must complete 450 hours of work-based learning and have two semesters of related classroom instruction.

## Work Experience

Elective	Varies
Credit	Varies
Prerequisite	Sr. status and permission of administrative team

School-supervised work experience is designed to help students learn about the world of work and develop necessary work skills. This is done by placing students in on-the-job experiences. In conjunction with the work-based experience, students will participate in a school classroom component. Credit based upon work hours during school day.