

Updates to Course of Study Guide 2018-2019

Updated Graduation Requirements to 24 for the class of 2019 and beyond (page 4)

Added the Laude System page (page 5)

Added the ACP (Academic and Career Planning) page (page 8)

Physical Education & Health - added the Zero period Personal Fitness course (page 24)

Agriculture - Added required to Employability Skills (page 27)

Business - Added Business & Personal Law Class (page 28)

Computer - Added an Intro to Computers Class, Changed Microsoft Office into 2 courses Computer Applications I & II, changed the name of Animation & Game Development to just Game Design and updated the course description and prerequisite, Web 2.0 updated the course description, credits & Prerequisites (page 30-31)

Art - Updated all of her courses (page 32-33)

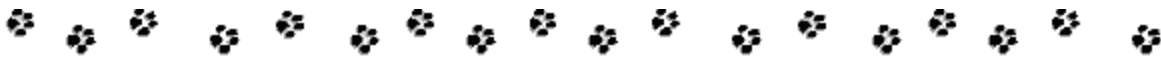
Engineering - Added Advanced Robotics and added prerequisites to her courses because for the first year of her program she did not have any. (page 36)

Laude Points were added to each course description that earns a student points.

Course of Study Guide

2018-19

Little Wolf Jr./Sr. High School



515 E. Fourth Street

Manawa, WI 54949

(920) 596 – 2524

“Our school, in collaboration with the community, is committed to focusing on high expectations, fostering individual academic excellence and creating a safe environment of respect and responsibility.”

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Welcome to Little Wolf High School!

During high school, students are preparing for more advanced curriculum while continuing to strengthen basic skills. It is our intention that this Course of Study Guide helps you gain a general understanding of the type of learning experiences you may participate in throughout the course of high school.

It is **your responsibility** to ensure that you have enough credits to graduate and that you have satisfied all LWHS requirements. You should check your credits at the beginning of each school year. Students planning on post-secondary education must meet with the School Counselor annually to make certain requirements are being met for acceptance to these institutions.

Students interested in discussing the option to drop/add a course, should meet with the school counselor and receive parent permission PRIOR to the start of the school year.

Your involvement in your education plays an important role in your success in school. Please feel free to contact your teachers, school counselor, or school administrators if you need assistance. They look forward to working with you during your high school experience.

Non-discrimination Clause

The Wisconsin Department of Public Instruction and Little Wolf High School do not discriminate on the basis of sex, race, religion, age, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional or learning disability.

Wis. Stat. 118.13 Pupil discrimination prohibited

(1) No person may be denied admission to any public school or be denied participation in, be denied the benefits of or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability.

Wolf Pride



“Our school, in collaboration with the community, is committed to focusing on high expectations, fostering individual academic excellence and creating a safe environment of respect and responsibility.”

~Tips for School Success~

- ❖ Arrive to class on time with appropriate materials (pen, pencil, notepaper, textbooks, folder, handbook, etc.).
- ❖ Participate in classroom activities (be a good listener, respect the views of others).
- ❖ Take notes to assist in studying and test taking. Maintain notes in an orderly manner throughout the course.
- ❖ Attendance is crucial to academic success – set a goal for perfect attendance.
- ❖ Need help? Seek out teachers, counselor, or administrators for assistance. Teachers are available during their prep periods and before and after school.
- ❖ Don't procrastinate! Keep up with your studies. Turn in work on time.
- ❖ Know school procedures and policies contained in the school handbook, as well as the Co-curricular Code of Conduct if an athlete.
- ❖ Be involved in school activities, clubs and organizations.
- ❖ Parents – stay involved with your child. Please attend Parent/Teacher Conferences and student co-curricular activities. Also, provide a quiet study space at home that is free from interruptions.

Graduation Requirements

To graduate from Little Wolf High School in 2019, students must earn **24 credits**. Successful completion of the following subjects is required for graduation:

- English 4.0 credits
- Social Studies 3.0 credits
- Mathematics 3.0 credits
- Science 3.0 credits
- Physical Education 1.5 credits*
- Health Education 0.5 credits
- Financial Literacy 0.5 credits
- Elective Courses 8.5 credits

***Due to Senate Bill 95/WI Act 105:** Permits pupils who participate in sports or other organized physical activity to complete an additional .5 credit in English, social studies, math, science or health education in lieu of a .5 physical education credit.



Grade Level Requirements

Students are required to have earned a minimum of...

- 6 credits to be considered a sophomore
- 12 credits to be considered a junior
- 18 credits to be considered a senior
- 24 credits to graduate

High school graduation requirements may be different from the entrance requirements for specific colleges and universities. The requirements listed below are minimum requirements for students to be eligible for admission to these institutions. Students are encouraged to exceed these minimum requirements and to challenge themselves by taking rigorous courses, including Advanced Placement courses, to be competitive in the collegiate admission process.

The Laude System

Our Laude System Policy

This system replaces the class rank system. Class rank will not be routinely provided to colleges for admissions purposes. The transcript will report the student's cumulative GPA with an accompanying Laude point score/distinction. A cover letter will be provided to the colleges explaining out Laude System. This point-based system is combined with the cumulative GPA. It rewards students for completing rigorous courses by enabling students to earn points for certain classes.

Cum Laude or Higher Placement

Students must meet two criteria to earn Laude Distinction:

- Cumulative GPA of 3.4 or higher
- Laude Score of 20 or higher

Cum Laude (With Honor/Distinction: Laude Score of 20-34.99)

Magna Cum Laude (With Great Honor/Distinction: Laude Score of 35-49.99)

Summa Cum Laude (With Highest Honor/Distinction: Laude Score of 50+)

Laude Point Courses

Youth Options Course(s): 0.5

AP Course: 1.5

Economics: 0.5

Physics/Advanced Physics: 1

Human Biology: 1

Biology 2: 1

Chemistry/Chemistry 2: 1

Pre Calculus/Trigonometry: 1

Statistics: 1

Animal Science TC: 1

Computer Applications 1 and 2 with certificate: 1

Accounting 1:1

Accounting 2: 1

Spanish 3: 1

Spanish 4: 1

Senior Art (3+ Art credits and 2+ years art team): 1

Music (Band and/or Chorus/Jazz Band 3+ years and 1st on class A Solo/Ensemble): 1

Business and Personal Law: 0.5

Robotics/Advanced Robotics: 1

How do I calculate my Laude Score?

Figure out how many Laude points you have and then your GPA.

		G.P.A.						
		4.0	3.9	3.8	3.7	3.6	3.5	3.4
Honor's Points	21	100	97.5	95	92.5	90	87.5	85
	20	96	93.6	91.2	88.8	86.4	84	81.6
	19	92	89.7	87.4	85.1	82.8	80.5	78.2
	18	88	85.8	83.6	81.4	79.2	77	74.8
	17	84	81.9	79.8	77.7	75.6	73.5	71.4
	16	80	78	76	74	72	70	68
	15	76	74.1	72.2	70.3	68.4	66.5	64.6
	14	72	70.2	68.4	66.6	64.8	63	61.2
	13	68	66.3	64.6	62.9	61.2	59.5	57.8
	12	64	62.4	60.8	59.2	57.6	56	54.4
	11	60	58.5	57	55.5	54	52.5	51
	10	56	54.6	53.2	51.8	50.4	49	47.6
	9	52	50.7	49.4	48.1	46.8	45.5	44.2
	8	48	46.8	45.6	44.4	43.2	42	40.8
	7	44	42.9	41.8	40.7	39.6	38.5	37.4
	6	40	39	38	37	36	35	34
5	36	35.1	34.2	33.3	32.4	31.5	30.6	
4	32	31.2	30.4	29.6	28.8	28	27.2	
3	28	27.3	26.6	25.9	25.2	24.5	23.8	
2	24	23.4	22.8	22.2	21.6	21	20.4	
1	20							

Four Year Course Planning Worksheet

24 Credits Required for Graduation

FRESHMAN		SOPHOMORE	
English 9	1	World Literature	1
US History	1	World History	1
Biology	1	Earth & Environmental Science	1
Math: Choose	1	Math: Choose	1
P.E. I	.5		
Health	.5		
Up to 2 elective credits		Up to 3 elective credits	
MUST TAKE AT LEAST 6 CREDITS	6	MUST TAKE AT LEAST 6 CREDITS	6
JUNIOR		SENIOR	
Course Name	Credits	Course Name	Credits
American Literature or A.P. English-Literature and Comp.	1	English 12 or A.P. English-Language and Comp.	1
Physical Science or Chemistry	1	Global Studies Government	.5 .5
Math:Choose	1	Employability Skills Financial Literacy	.5 .5
Up to 4 Elective Credits		Up to 4 Elective Credits	
MUST TAKE AT LEAST 6 CREDITS	6	MUST TAKE AT LEAST 6 CREDITS	6

*If you take a Study Hall this counts as a class and you would decrease your elective credits by 1.

University of Wisconsin System

Students must meet the following minimum requirements in order to be eligible for admission:

English 4 credits

Mathematics 3 credits

(minimum of Algebra 2)

Science 3 credits

Social Studies 3 credits

FA/Electives/Language 4 credits

Two years of a single foreign language are required for admission to UW-Eau Claire and UW-Madison, and strongly recommended at other UW System campuses.

Nation's Top Universities

Students must meet the following minimum requirements in order to be eligible for admission:

English* 4 credits

Mathematics 4 credits

Science 3-4 credits

Social Studies** 3 credits

World Language*** 3-4 credits

*Intensive work in writing

**Includes American & European History

***At least one world language

Rigorous courses should be taken, including AP level when possible, and SAT or complete ACT achievement tests administered by the College Board.

Wisconsin's Technical Colleges

The following are recommended high school credits for adequate, comprehensive preparation for success in technical college programs:

English 4 credits

Mathematics 3 credits

Science 3 credits

Social Studies 3 credits

Technical Courses 3-4 credits

Technical college programs have admission standards, and some programs have waiting lists. Apply early and seek your counselor's advice regarding your chosen program.

Wisconsin's Private Universities

Students must meet the following minimum requirements in order to be eligible for admission:

English 4 credits

Mathematics 3 credits

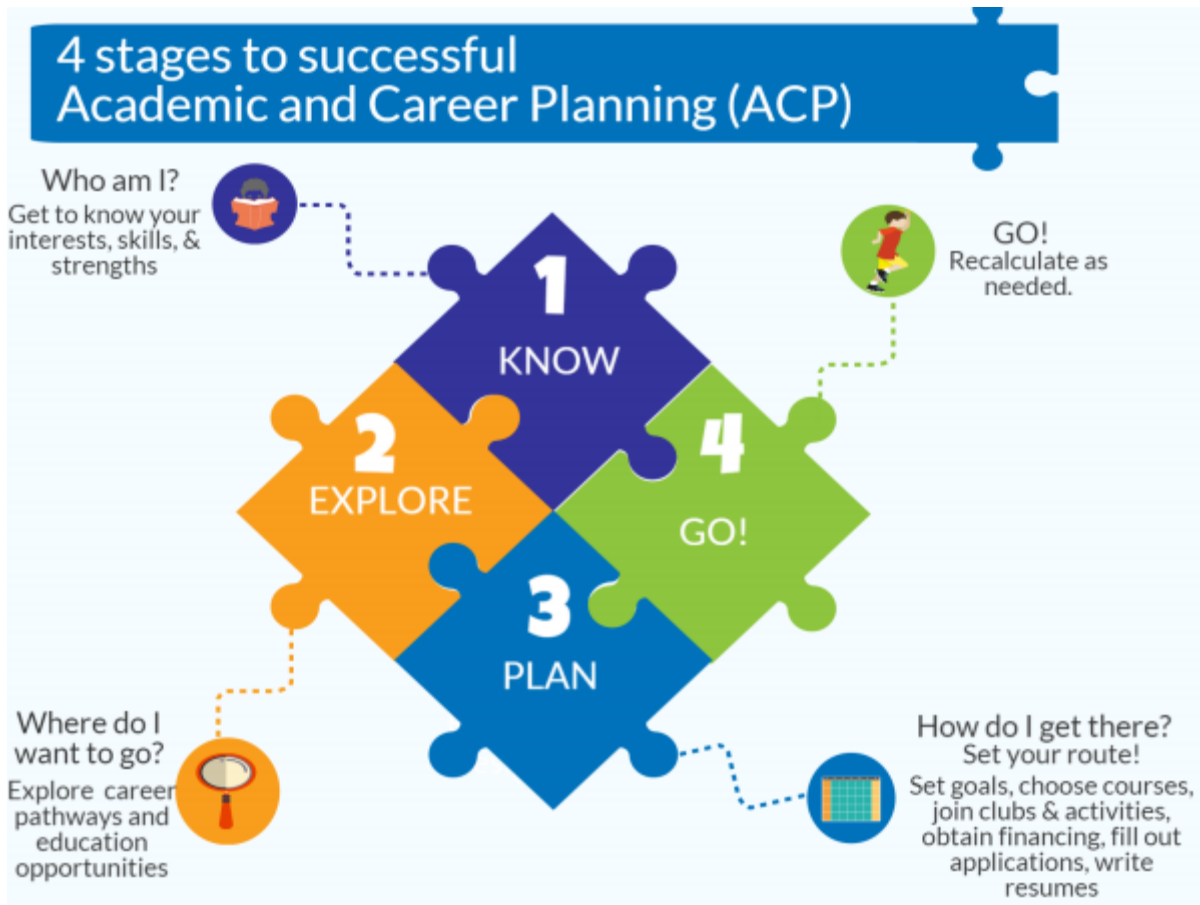
Science 3 credits

Social Studies 3 credits

World Language 2 credits

Considerations for admission include either ACT or SAT scores and grades earned within the context of courses taken, as well as the challenge level of the courses.

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.



What is ACP?

An **ongoing process** to actively engage students to:

- * Develop an understanding of his or her self
- * Create a vision of his or her future
- * Develop individual goals
- * Prepare a personal plan for achieving the vision and goals

A **product** that documents and reflects students’:

- * coursework, learning and assessment results
- * post-secondary plans aligned to career goals & financial reality
- * record of college and career readiness skills.

Transcribed Course



Transcribed Credit (TC)

- Through a memorandum of understanding and a “wash” contract between L.W.H.S. and F.V.T.C., students take a F.V.T.C. course taught by a WTCS certified high school teacher at Little Wolf Jr./Sr. High School.
- The curriculum is shared from FVTC and the student is registered in both the high school and FVTC course.
- The student receives a grade from the high school and also FVTC which is posted on an official FVTC transcript.
- The high school maintains the student record; FVTC also maintains the student record.

For more information: www.fvtc.edu/techprep

Little Wolf Jr./Sr. High School courses:

Transcribed Credit

- Animal Science/Veterinary Medicine **TC**
- Shielded Metal Arc Welding (SMAW) Techniques 1 **TC**
- Gas Metal Arc Welding (GMAW) Techniques 1 **TC**

Divisions I and II Initial-Eligibility Requirements

Core Courses

- **NCAA Division I requires 16 core courses. NCAA Division II currently requires 14 core courses.** Division II will require 16 core courses for students enrolling on or after August 1, 2013. See the charts below.
- **NCAA Division I will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below).
 - *Beginning August 1, 2016, it will be possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.*

Test Scores

- **Division I** uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.
- **Division II** requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

Grade-Point Average

- Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- **Division I** students enrolling full time **before August 1, 2016**, should use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year.
- **Division I GPA** required to receive athletics aid and practice on **or after August 1, 2016, is 2.000** (corresponding test-score requirements are listed on sliding scale B on Page No. 2 of this sheet).
- **Division I GPA** required to be eligible for competition on or after August 1, 2016, is 2.300 (corresponding test-score requirements are listed on sliding scale B on Page No. 2 of this sheet).
- **The Division II** core GPA requirement is a minimum of 2.000.
- Remember, the NCAA GPA is calculated using NCAA core courses only.

DIVISION I

16 Core Courses, 4 years English, 3 years of Mathematics (Algebra 1 or higher), 2 years of natural/physical Science (1 yr of Lab if offered by High School), 1 year of additional english, mathematics or natural/physical science, 2 years of Social Sciences, 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy)

DIVISION II

16 Core Courses, 3 years English, 2 years of Mathematics (Algebra 1 or higher), 2 years of natural/physical Science (1 yr of Lab if offered by High School), 3 year of additional english, mathematics or natural/physical science, 2 years of Social Sciences, 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy)

English – 4 credits

The English curriculum is designed to stress skills in reading, writing, listening and speaking. Units of study include literature units such as short stories, novels, drama and writing units such as expository writing, personal writing, and research paper.

Available English Courses:

- English 9
- World Literature
- American Literature
- A.P. English-Literature and Composition
- English 12
- A.P. English-Language and Composition

Recommended Sequence of Courses:

Grade 9	Grade 10	Grade 11	Grade 12
English 9 (required)	World Literature (required)	American Literature -OR- A.P. English-Literature and Composition (one is required)	English 12 -OR- A.P. English-Language and Composition -OR- A.P. English-Literature and Composition (one is required)

Course Descriptions

English 9 – required – This is a one credit course for all freshmen. Students will read, analyze, and discuss a wide variety of literature and nonfiction. Informative, creative, persuasive, and research writing will be expected and the writing process will be utilized. Vocabulary, speaking, and grammar/editing skills are practiced throughout the semester. Students are heterogeneously grouped and exposed to a broad range of language arts and communication skills. Some material will coincide with 9th grade American History curriculum.

1 Credit Grades: 9 Prerequisite: None

World Literature – required – This one credit course is for all sophomores. Students will engage in the reading of works from a variety of places and perspectives to understand how universal themes span culture and time periods. Informative, persuasive, analytical and research writing will be expected and the writing process will be utilized. Vocabulary, speaking, and grammar/editing skills are practiced throughout the semester. Students are heterogeneously grouped and exposed to a broad range of language arts and communication skills. Some material will coincide with 10th grade World History curriculum.

1 Credit Grades: 10 Prerequisite: None

American Literature – one choice of two for junior students -- This one credit course is designed to meet the needs of those students who will not be taking AP English coursework. Students will read, analyze, and discuss short stories, essays, poems, and a play from an American Literature anthology, as well as at least two additional novels. Author information, historical connections, literary terms, and vocabulary will also be discussed in context. Writing tasks include a theme based essay, documented author essay, and a detailed character sketch. Individual and group projects and ACT test preparation/practice will also occur throughout the year.

1 Credit Grades: 11 Prerequisite: English 9 and 10

A.P. English-Literature and Composition --one choice of two for junior students-- **1.5 Laude Points** “The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works” (College Board AP English Literature and Composition Course Description).

NOTE: Students may receive credit/advanced course placement at a 4-year college/university by scoring a 3, 4, or 5 on the A.P. Literature and Composition test. The A.P. test is offered at Little Wolf Jr./Sr. High School. Cost is approximately \$93.00. Students who plan to take both A.P. Literature and Composition and A.P. Language and Composition are encouraged to check with any college or university they plan to attend to verify whether that school will allow credit for two A.P. English courses.

1 Credit **Grades: 11-12** **Prerequisite: English 9 and World Lit (grade of B or better)**

English 12 – This course is designed to meet the needs of students who will not be taking AP English coursework. Students will practice basic narrative, informative, analytical, persuasive, and research writing. This will also include resume, job application, and other workplace writing and communication skills. Vocabulary and grammar/editing skills will also be emphasized. Reading will consist of both fiction and informational text throughout the course.

1 Credit **Grades: 12** **Prerequisite: English 9, World Lit, and American Literature.**

A.P. English-Language and Composition --**1.5 Laude Points** “The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods” (College Board AP English Language and Composition Course Description).

NOTE: Students may receive credit/advanced course placement at a 4-year college/university by scoring a 3, 4, or 5 on the A.P. Language and Composition test. The A.P. test is offered at Little Wolf Jr./Sr. High School. Cost is approximately \$93.00. Students who plan to take both A.P. Literature and Composition and A.P. Language and Composition are encouraged to check with any college or university they plan to attend to verify whether that school will allow credit for two A.P. English courses.

1 Credit **Grades: 11-12** **Prerequisite: English 9, World Lit and American Literature or A.P. English Literature and Composition with a grade of B or better.**

Mathematics – 3 credits

The mathematics curriculum expands upon students' previous learning in a continuous sequence of courses focusing on advancing the students' mathematical skills in the areas of problem solving, reasoning and critical thinking.

Courses Taught in Mathematics:

Sequence of Courses

<ul style="list-style-type: none"> • Algebra 1 • Integrated Algebra • Geometry • Integrated Geometry • Algebra 2 • Pre Calculus & Trigonometry • Statistics • A.P. Calculus AB • Senior Math 	<p><u>Algebra or Integrated Algebra</u></p> <p><u>Geometry or Integrated Geometry</u></p> <p><u>Algebra 2 or Trade Math</u></p> <p><u>Pre-Calculus & Trig or Statistics</u></p> <p><u>AP Calculus (Pre-Calc & Trig required)</u></p>
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NOTE: All students who qualify to take Algebra in their 8th grade year will be granted one credit on their high school transcript. The grade earned for this course is not part of the high school grade point average (GPA) but is counted towards the overall graduation credit requirement. **Failure to earn a grade of a C- or higher for both semesters will require the student to retake Algebra as a freshman. However, this credit does not preclude the student from taking an additional two credits of mathematics while in high school.**

Freshmen, Sophomores, & Juniors must have a minimum of 1 credit of Math per year.

Course Descriptions

Algebra 1 – This course is designed to introduce the student to the topics needed to go into the upper level Algebra courses. It stresses rational expressions and problem solving with variables, number sets and real numbers, solving linear equations, graphing linear equations, writing linear equations, solving and graphing linear inequalities, systems of linear equations and inequalities, exponential functions, polynomials and factoring, rational expressions and equations, matrices, and radicals.

1 Credit

Grades: 9

Prerequisite: None

Integrated Algebra – This course covers all of the same topics as the Algebra course, except it will be a more project based class and is designed for those students who are considering a technical college or world of work path after high school.

1 Credit **Grades: 9** **Prerequisite: None**

Geometry – A logical approach to the study of real objects and shapes: i.e. parallel lines, triangles, circles, solids, etc. Emphasis is placed on algebraic applications.

1 Credit **Grades: 9-11** **Prerequisite: Algebra or Integrated Algebra**

Integrated Geometry – This course covers the same topics as the Geometry course, except it will be more project-based and is designed for those students who are considering a technical college or world of work path after high school.

1 Credit **Grades: 10-11** **Prerequisite: Algebra or Integrated Algebra**

Algebra 2 – Extends the student's' knowledge of the real number systems and operations with complex numbers. It will develop the student's' knowledge of conic sections, polynomial functions, rational expressions, exponential and logarithmic functions, sequences and series, discrete mathematics, and trigonometric functions. It gives the students a degree of understanding that helps them become more proficient in many lines of work. **NOTE:** This course is required for college and university admission.

1 Credit **Grades: 10-12** **Prerequisite: Geometry or Integrated Geometry (Recommended grade of C or better)**

Trade Math – Intended for students considering attending a technical college or the world of work. Focuses on the math skills needed for various trades. Topics include arithmetic fundamentals, percent and proportion applications, the metric system, conversions, practical geometry, measurement applications, signed numbers and formula evaluation. Micrometer, equation solving and standard rule measurement units are included as needed. Scientific calculator use is introduced as needed.

1 Credit **Grades: 10-12** **Prerequisite: Geometry or Integrated Geometry**

Pre-Calculus & Trigonometry – 1 Laude Point Prepares students for college mathematics. The basic structure of this course is built around the study of functions, their properties, graphs and applications in society. Functions included in this course: linear, polynomial, rational, trigonometric, exponential and logarithmic. Also included in this course is the study of polar coordinates and complex numbers, sequences and series, and probability. The purchase of a graphing calculator is highly recommended for this course. A TI-83 or TI-84 calculator is required. **A TI-89 is not allowed.**

1 Credit **Grades: 11-12** **Prerequisite: Advanced Algebra
(Recommended grade of C or better or
by teacher approval)**

Statistics – 1 Laude Point Students will learn how to collect, organize, display and interpret data and information. Students will also learn basic probability skills and how to apply it to data. This is a college prep course.

1 Credit **Grades: 11-12** **Prerequisite: Advanced Algebra**

A.P. Calculus AB – 1.5 Laude Points Equivalent to a first semester college calculus course. The basis of study includes limits and continuity, derivatives, integrals, and the applications. A TI-83 or TI-84 calculator is required. **A TI-89 is not allowed.** This course provides the information necessary to attain a satisfactory score on the national Advanced Placement test in AB Calculus, which grants students college credits at any university.

NOTE: Students may receive credit/advanced course placement at a 4-year college/university by scoring a 3, 4, or 5 on the A.P. AB Calculus test. The A.P. test is offered at Little Wolf Jr./Sr. High School. Cost is approximately \$93.00.

1 Credit **Grades: 11-12** **Prerequisite: Pre-Calculus &
Trigonometry
(Recommended grade of B or better or
by teacher approval)**

Senior Math – Practicing math is necessary to keeping skills fresh. Many post-secondary schools do not require more than the 3 credit math graduation requirement. Therefore, some students may choose to not take a math class their senior year. This semester class is designed for students not enrolled in a math class their senior year, but wish to keep up their skills as they prepare to take math placement tests for their post-secondary education. The course topics will be based on the ACT Mathematics College and Career Readiness Standards.

0.5 Credit **Grades: 12** **Prerequisite: Senior standing and 3
credits earned in mathematics or teacher
recommendation**

Science – 3 Credits

The science curriculum introduces and explores various concepts in the areas of life, earth & space, and physical science. One credit from each of the disciplines is required.

Courses Taught in Science:

- Biology 1
- Earth and Environmental Science
- Physical Science
- Chemistry 1
- Chemistry 2
- Physics
- Physics 2
- Biology 2
- Human Biology

Recommended Sequence of Courses:

Biology (Required)

Earth & Environmental Science (required class of 2020 and beyond)

Physical Science or Chemistry 1
(choose 1 to meet Physical Sci requirement)

After Phy Sci	After Chem 1
Bio II or Chem 1	Bio 2, Physics, Chem 2, Human Bio

Course Descriptions

Biology 1 – *required* – Biology is the study of life. Lab work will be included to develop critical thinking and organizational skills. Units covered include, but are not limited to: The Scientific Method, Ecology (principles, biomes, population biology, natural resources), Cells (biochemistry, structure/function, mitosis), Genetics (meiosis, genes, chromosomes, DNA, heredity), and the Theory of Evolution by Natural Selection.

1 Credit **Grades: 9-12** **Prerequisite: None**

Earth & Environmental Science (*required class of 2020 and above*)– A laboratory-oriented course designed to introduce the student to the structure and function of Earth processes. The main topics of study will include geology, astronomy, meteorology, oceanography and the science of the environment.

1 Credit **Grades: 9-12** **Prerequisite: Biology 1**

Physical Science – Designed to expose students to various scientific concepts. The goal is science literacy. The units covered include, but are not limited to: Basic Chemistry (the Nature of Matter and the Changes in Matter) and Basic Physics (Motion and Energy). Students will learn problem-solving skills and will be shown how science relates to their lives. Lab work is required.

1 Credit **Grades: 9-12** **Prerequisite: Biology 1**

Chemistry 1 – A laboratory-oriented course designed to study the working of chemical reactions meant for students intending to attend a college or university. Labs are practical in nature and focus on applying concepts learned in class. An understanding of Algebra is essential to understand Chemistry. Units covered include Data Analysis, Matter, Atomic Structure, Periodic Table, Compounds and Chemical Bonds, Chemical Reactions & Equations, Mole Concept and Stoichiometry, Solution Chemistry, and Acids & Bases.

1 Credit **Grades: 11-12** **Prerequisite: Biology 1 & Beginning Algebra**
(Recommended grade of C or better)

Chemistry 2 –1 Laude Point A laboratory-oriented course designed to deepen the student's understanding of chemical science. Concepts studied include: review of chemistry I inorganic concepts, states of matter, gas laws, chemical kinetics, chemical system equilibrium, oxidation-reduction, electrochemistry, nuclear chemistry, analytical chemistry techniques, and organic chemistry.

1 Credit **Grades: 11-12** **Prerequisite: Chemistry 1**

Biology 2 – 1 Laude Point Biology 2 is a continuation of Biology 1. The Organization of Life and the six-kingdom classification system (Taxonomy) will be explored in depth starting with lower life forms and working up to animals. Labs will have an emphasis on identification and dissection of several species.

1 Credit **Grades: 10-12** **Prerequisite: Biology 1 and Physical Science or Chemistry**
(Recommended grade of C or better)

Human Biology- 1 Laude Point This course presents the structure and function of the human body. Practical use of medical terminology as applied to and identifying organ systems, organs and what they do, pathology, treatments and specialists in medical fields. Students will be required to participate in lab exercises, lab practical, quizzes and exams. This course does include a laboratory component and meets graduation requirements for science.

NOTE: Students are encouraged to purchase The Language of Medicine: 8th Edition, by Chabner (ISBN: 9781416034926), new or used, for note taking and to keep for future use.

1 Credit **Grades: 11-12** **Prerequisite: Biology 1 and Chemistry 1**
(Recommended grade of B or better)

Physics 1 – 1 Laude Point A laboratory-oriented course designed to investigate the physical aspects of our universe meant for students intending to attend a college or university. Topics studied first term include science principles, laws of motion, Newtonian mechanics, and non-relativistic gravity. The second term will explore rotational motion, momentum, energy, work, simple machines, and fundamentals of electromagnetism.

1 Credit

Grades: 11-12

Prerequisite: Algebra 1 or Integrated Algebra and Geometry, Biology 1, Physical Science or Chemistry 1. (Recommended grade of B or better and Algebra 2)

Physics 2 – 1 Laude Point A laboratory-oriented course designed to further build the student's understanding of the natural phenomena of our universe. Topics studied first term include deeper investigation of Newtonian mechanics, Kepler's laws of planetary motion, electric circuits, and the properties of light. The second term will explore wave phenomena of acoustics and optics, quantum mechanics, nuclear physics, and Einstein's theories of general and special relativity.

1 Credit

Grades: 12

Prerequisite: Physics 1

Social Studies – 3 credits

The social studies curriculum strives to prepare young people to be humane, rational, participating citizens in an ever-changing world by understanding their historical roots and how past events shape their world today. Reconstructing and interpreting historical events provides needed perspective in addressing the past, the present, and the future.

Courses Taught in Social Studies:

- U.S. History
- World History
- Sociology
- Economics
- Global Studies
- Government
- A.P. Psychology
- A.P. U.S. History

Recommended Sequence of Courses:

Grade 9	Grade 10	Grade 11	Grade 12
U.S. History (required)	World History (required class of 2021 and above)	A.P. U.S. History A.P. Psychology Sociology Economics Psychology	Government (required) Global Studies (required) Sociology Economics A.P. Psychology A.P. US History

Course Descriptions

U.S. History – required – U.S. History is a survey class of the American experience in all of its dimensions. The American experience is one of the most unique chapters in human history. Democracy, internal expansion, race relations, free enterprise economy, rise to superpower status and our role in the post-Cold War world will be discussed during the course of the semester. The class will be taught with using a mix of chronological and thematic approaches for a better understanding of our history. We share a country with a rich history that shapes the American experience we share today and will share in the future.

1 Credit

Grades: 9

Prerequisite: None

World History – required class of 2021 and above - World History is concerned with the development of past civilizations, centering on Mesopotamian, Egyptian, Greek, Roman and the European Middle Ages, with an emphasis on their cultural development and contributions to present civilization. Linking the present to the past is an important aspect of the course as students learn to relate history to present events and developments. The course will include an introduction to the historical fictional novel and the research paper.
*This course is recommended for college-bound students.

1 Credit Grades: 10 Prerequisite: None

Sociology – Sociology is the study of human social behavior, and concentrates on patterns of social relationships, primarily in modern societies. This class will explore the sociological point of view towards culture, socialization, social structure, groups and organizations, deviance and social control, social classes and inequalities. Also discussed will be topics such as high school cliques, family structures, education, political and economic institutions, and social collective behaviors. This class will ask students to take a personal look at the roles they play and what groups they associate with as well as evaluate parts of our society.

0.5 Credit Grades: 11-12 Prerequisite: None

Economics - .5 Laude Point Economics will challenge the way you think and react to everyday events, with or without money. Economics is ultimately the study of scarcity and how people, markets and countries deal with limited resources at the personal and global levels. The first level quarter of study will focus on microeconomics, the study of how people make decisions and how those decisions affect others in the economy. Topics of study will include; tradeoffs, opportunity cost, different types of economies, supply and demand, profit maximization prices and the role of government. At the end of the quarter the class will switch to macroeconomics, the study of the economy as whole. Topics of study will include; GDP, economic growth, money, banking, the federal reserve and international trade.

0.5 Credit Grades: 11-12 Prerequisite: None

A.P. Psychology – 1.5 Laude Points AP Psychology is designed to introduce students to the scientific study of the behavior and mental processes of human beings. To accomplish this, the course provides instruction in each of the following 14 content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. The intent of this course is to prepare students for the AP Psychology Test and will incorporate opportunities for performance based assessments as well as free response questions that are part of the AP Test format.

NOTE: Students may receive credit/advanced course placement at a 4-year college/university by scoring a 3, 4, or 5 on the A.P Psychology test. The A.P. test is offered at Little Wolf Jr./Sr. High School. Cost is approximately \$93.00.

1 Credit Grades: 11-12 Prerequisite: None

A.P. U.S. History - 1.5 Laude Points The AP program in US History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in US History. AP US History prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance and to weight the evidence and interpretations presented in historical scholarship. An AP US History course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

NOTE: Students may receive credit/advanced course placement at a 4-year college/university by scoring a 3, 4, or 5 on the A.P. U.S. History test. The A.P. test is offered at Little Wolf Jr./Sr. High School. Cost is approximately \$93.00.

1 Credit **Grades: 11-12** **Prerequisite: Recommended grade of B or better in U.S. History**

Global Studies – required – Students may take this course their 11th or 12th grade years. This course will focus on studying the culture of various regions around the world and the global connections of those cultural regions to our own and others around the world. The objectives and learning targets of this course will address two standards of the National Council for Social Studies Curriculum, as adopted by the School District of Manawa: 1-Culture and 9-Global Connections.

0.5 Credit **Grades: 12** **Prerequisite: None**

Government – required – This portion of the course provides the student an opportunity to acquire detailed knowledge of the democratic form of government practiced in the United States. The overall objective of this course is to prepare students for their place in society, by helping them learn how our government works, how it can be changed and what rights and freedoms our Constitution guarantees us. It will also provide students with a broad overview of modern forms of government, present in today’s global community. Finally, it will allow students to investigate and possibly participate in service learning opportunities for hands on experience of their civic responsibilities.

0.5 Credit **Grades: 12** **Prerequisite: None**

World Language

The world language curriculum develops an understanding of the language, culture, history and literature of Spanish-speaking countries. Spanish courses strive to develop student proficiency in reading, writing, and speaking the language.

Courses Taught in World Language:

- Spanish Cultures
- Spanish 1*
- Spanish 2*
- Spanish 3
- Spanish 4

* Two to four years of a world language may be required for admission to **some** UW schools. However, world language can be used as academic credits pertaining to admission requirements. See your school counselor for entrance requirements for colleges to which you plan to apply.

Course Descriptions

Spanish Cultures – This course will explore the culture of Spanish speaking countries through film, music, dance, food, art and current events. As opposed to the traditional Spanish class progress (1-4), the focus will change from vocabulary/verb conjugation to an interactive approach to cultural appreciation.

1 Credit **Grades: 9-12** **Prerequisite: None**

Spanish 1 – Students learn the basics of the language: alphabet, vocabulary, sounds and structure. Culture is introduced as a background for the language study. Basic conversation and reading are introduced.

1 Credit **Grades: 9-12** **Prerequisite: None**

Spanish 2 – The course is sequential to Spanish 1. Continued vocabulary and verb study follow, but focus on past tenses. Writing skills become more complex. Conversation, reading, and writing skills continue to develop.

1 Credit **Grades: 9-12** **Prerequisite: Spanish 1**
(Recommended grade of C or better)

Spanish 3 – **1.0 Laude Point** Conversation and writing skills are emphasized. While continuing to learn new vocabulary and advanced grammar, students now put into practical application what they have learned in the previous two years.

1 Credit **Grades: 10-12** **Prerequisite: Spanish 2**
(Recommended grade of C or better)

Spanish 4 – **1.0 Laude Point** Continued conversational and writing skills are emphasized. More vocabulary and advanced grammar skills are added to proficiency level. A sampling of native Spanish literature is read.

1 Credit **Grades: 11-12** **Prerequisite: Spanish 3**
(Recommended grade of C or better)

Physical Education - 1.5 Credits and Health - .5 Credit

The physical education and health curriculum focuses on understanding the human body, enjoying exercise, and maintaining a desirable level of physical fitness.

Courses Taught in Physical Education and Health:

- Physical Education 1
- Health: A Wellness Decision
- Physical Education 2
- Physical Education Elective
- Personal Fitness 101
- Team Sports

Recommended Sequence of Courses:

Grade 9	Grade 10	Grade 11	Grade 12
Phy. Ed 1 -AND- Health: A Wellness Decision Both are required	Phy. Ed. 2 Personal Fitness	Phy. Ed. Elective Personal Fitness Team Sports	Phy. Ed. Elective Personal Fitness Team Sports

Course Descriptions

Physical Education I – *required* – Freshman Course. Units covered are geared towards individual and team sports. The units covered are flag football, soccer, volleyball, basketball, weight training, fitness, badminton, softball, OMNIKIN, Tsegball, Eclipse Ball, and floor hockey. Fees include: \$20 - \$25 for bowling.

0.5 Credit Grades: 9 Prerequisite: None

Health: A Wellness Decision – *required* – Designed to reinforce positive health attitudes and skills previously developed and to allow young people to assess the lifestyle decisions that contribute to wellness. Units of study within the course include: positive ways of handling stress vs. negative ways of handling stress, addictions, your health history, sexuality and responsible behavior, self-care vs. the pill-fairy model, first aid and CPR.

0.5 Credit Grades: 9 Prerequisite: None

Physical Education 2 – Units geared toward racquet sports, lifelong fitness, and team sports. Units covered are pickle-ball, badminton, Eclipse Ball, bowling, weight lifting, circuit training. Team sports include flag football, volleyball, basketball, soccer, Tsegball, floor hockey, OMNIKIN, cooperative games, and team building activities. Fees include: \$20 - \$25 for bowling and other field trips.

0.5-1 Credit Grades: 10 Prerequisite: Physical Education 1

Physical Education Elective – Units are geared toward lifetime sports. Units covered are snowshoeing, cross-country skiing, golf, archery, badminton, bowling, pickleball, and fitness walking/principles. Team sports include flag football, volleyball, basketball, soccer, speedball, Tsegball, Eclipse Ball, floor hockey, and cooperative games. Guest speakers to promote careers in physical education are scheduled. Fees include: approximately \$20 - \$25 for bowling; cross-country skiing and snowshoeing. This course may be taken more than one time. This is not a freshman course.

0.5-1 Credit Grades: 10-12 Prerequisite: Physical Education 1

Personal Fitness 101--Throughout this course, students will achieve a personal level of fitness through goal setting, participation, and knowledge of weight lifting. This course motivates a student to strive for optimal personal fitness, as well as create a self-awareness of lifetime wellness, with a final outcome of creating their own fitness program. Students will benefit from cardio respiratory endurance activities and wide-ranging weight training exercises. Course includes lecture dealing with proper technique, 5 components of fitness, and the FITT principle, as well as teacher demonstration, weight training, aerobics, yoga, fitness walking, running, and other fitness activities. This is not a freshman course.

0.5-1 Credit Grades: 10-12 Prerequisite: Physical Education 1

Team Sports -Throughout this course, students will participate in a variety of team building activities, sports, and projects dealing with teamwork, problem solving, and strategizing. This course motivates a student to strive for leadership skills and critical thinking skills. Course includes *COMPETITIVE* play in units such as volleyball, basketball, football, Tsegball, Tchoukball, ultimate Frisbee, eclipse ball, baseball/softball, matball, OMNIKIN, soccer, speedball, etc. Possible \$5 fee for team bowling.

0.5-1 Credit Grades: 11-12 Prerequisite: 11th or 12th grade

Zero Hour/Early Bird Hour - Personal Fitness 101 -- Throughout this course, students will achieve a personal level of fitness through goal setting, participation, and knowledge of weight lifting. This course motivates a student to strive for optimal personal fitness, as well as create a self-awareness of lifetime wellness, with a final outcome of creating their own fitness program. Students will benefit from cardio respiratory endurance activities and wide-ranging weight training exercises. Course includes lecture dealing with proper technique, 5 components of fitness, and the FITT principle, as well as teacher demonstration, weight training, aerobics, yoga, fitness walking, running, and other fitness activities. This is not a freshman course.

0.5 Credit Grades: 10-12 Prerequisite: Physical Education 1

Agriculture

Agriculture courses are for any student who has interest in animals, plants, food, leadership and/or the environment. Students who take agriculture courses experience many diverse and challenging topics. Twenty percent of all careers are directly related to agriculture. Experience premier leadership, personal growth and career success through courses in the agriculture department.

Courses Taught in Agriculture:

- Plants, Animals & You: Exploratory Agriculture
- Animal Science/Veterinary Medicine **TC**
- Horticulture/Landscaping
- Food Science
- Wildlife
- Independent Study – Agriculture—needs instructor approval
- Leadership
- Employability Skills
- Youth Apprenticeship

Recommended Sequence of Courses:

Grade 9	Grade 10	Grade 11	Grade 12
-Plants, Animals & You -Food Science	-Any course offered in 9 th grade -Wildlife -Animal Science/ -Vet. Medicine TC	-Any courses offered in 9th or 10th grades -Leadership -Independent Ag -Youth Apprenticeship -Horticulture/Landscaping -Work Study	-Any courses offered in 9th,, 10th, or 11th grades -Work Study -Employability Skills -Horticulture/Landscaping -Independent Ag.

Course Descriptions

Plants, Animals & You: Exploratory Agriculture – This introductory class covers a wide range of topics in agriculture, including animals, food, fiber, the outdoors and leadership. This project-based class includes lessons on careers, food science, plants, pets, animals, biotechnology, business, and the outdoors. Emphasis will be on how agriculture relates to your daily life and your future. Field trips may be taken during the year. FFA projects will be incorporated.

1 Credit **Grades: 9-12** **Prerequisite: None**

Food Science – This course focuses on the science of production and processing of food. Learn about how food technology is changing agriculture. You will learn about careers and the science related to food. Create projects and research the history of food. Study everything from apples to zucchini, chocolate and cheese, and other tasty treats. This fast growing career field is one to take a look at! FFA projects will be incorporated.

1 Credit **Grades: 9-12** **Prerequisite: None**

Animal Science/Veterinary Medicine TC – 1 Laude Point This class is designed for the person interested in animals. Students will learn about livestock, agriculture, & pets. We will learn about giving injections, suturing wounds, and general animal care. Students will develop a basic understanding of animal nutrition, genetics, reproduction and health. Guest speakers, demonstrations, job shadows, field trips and lab experiments are also designed as a part of this course. Students will also have the opportunity to bring in and incorporate their own animals into the class. FFA projects will be incorporated. This course is articulated with Fox Valley Technical College for Transcribed Credit. See class listing for Little Wolf Jr./Sr. High Transcribed Courses.

1 Credit **Grades: 10-12** **Prerequisite: Recommended Biology 1**

Horticulture/Landscaping – This hands-on class covers everything from basic plant science to floral design to gardening to landscaping to sampling fruits and vegetables. Students will learn about all aspects of the reproduction, growth, design and marketing of plants. Students will create horticulture projects, make floral arrangements, and be involved in many other projects involving flowers, vegetables, and landscaping and outdoor projects. FFA projects will be incorporated. (Offered in Alternating years based on student requests)

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Wildlife – This course focuses on 4 “F’s”: fish, fowl, forestry and fur. Learn about the great outdoors! Study will include natural resources, water quality, ecosystems, wildlife management, taxidermy, hunting ethics, fish, tree identification, trapping, and more. School forest projects will also be included. Learn about careers, economic benefits and social influences. FFA projects will be incorporated.

0.5 Credit **Grades: 10-12** **Prerequisite: Recommended Biology 1**

Leadership – Students will learn about leadership as it affects individuals, organizations, and systems in food, fiber, and natural resources enterprises. This class explores the skills and abilities needed to be an influential leader in our school, home, and community. Students will learn how to be confident public speakers, to run a meeting, to effectively work as a team, to be a group leader, and most importantly become involved in the community. Students will explore leadership roles, learning styles and human relations skills for personal growth and career success. Emphasis will be placed on community service, goal setting and individual projects. FFA projects will be incorporated. Students may earn a State Leadership certificate through this course.

1 Credit **Grades: 11-12** **Prerequisite: None**

Independent Study – Students develop their own projects based on interests.

1 Credit **Grades: 11-12** **Prerequisite: FFA Membership & Instructor Approval**

Employability Skills – REQUIRED This class provides an opportunity to develop positive attitudes, knowledge, skills and linkages that will empower the successful transition from high school to postsecondary options. Curriculum study units will include: assessment, transition, Covey's 7 Habits of Highly Effective People, core abilities, job writing, college survival, etc. Students may earn a State Employability Skills certificate through this course. (Offered in Alternating years based on student requests)

0.5 Credit Grades: 12 Prerequisite: None

Work Study – Students must be employed and work regular hours during the school year. Students must meet credit requirements to be on track for graduation. Qualified students may be granted a maximum of one period daily for work release. Approval by school counselor, principal and employer are necessary. Class will meet 32 minutes each Wednesday for instruction.

NOTE: This course is offered to juniors or seniors.

1 Credit Grades: 11-12 Prerequisite: Employed

Youth Apprenticeship - Available to juniors and seniors, Youth Apprenticeship (YA) involves coursework and related work-based learning relevant to Career Pathways. Students must have related employment and employers must adhere to standards of the program. YA students must be in good academic standing, have excellent attendance, and have taken a sequence of related coursework. Upon successful completion of 450 hours of related work and the competency checklist, students will earn a Level 1 Youth Apprenticeship Certificate by the Wisconsin Department of Workforce Development. A two-year program is also available. There are different Youth Apprenticeship (YA) pathway programs to choose in the area of Agriculture, Food and Natural Resources (AFNR). Programs require completion of the Core Skills and Safety Units concurrently with the applicable technical Basics Unit in the first year. There are 16 pathways, which include modules such as Animals, Plants, Environmental Systems, and Food/Hospitality/Lodging.

1 Credit Grades: 11-12 Prerequisite: None

Business Education

0.5 Credits - Financial Literacy Required

Courses Taught in Business:

Introduction to Marketing
Introduction to Business
Accounting 1

Accounting 2
Business & Personal Law
Publications
Financial Literacy

Course Descriptions

Introduction to Marketing – All businesses, from Google to Nike, are marketing organizations. They seek to satisfy customer needs and wants at a profit. This course is designed to introduce students interested in a career in marketing or a business major in college to the unique world of marketing. The first half of this course focuses on the concepts and strategies that businesses use to promote products, services, ideas and/or images. The second half of the course offers students the opportunity to learn marketing skills needed in the fast-paced world of retailing. Students will utilize Virtual Business software, a fully visual business simulation where students start and run their own business. Throughout the course students will be made aware of the importance of marketing and how it influences much of our lives. (offered alternating years based on student requests)

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Introduction to Business – This class will introduce you to the world of business and help prepare you for the economic roles of consumer, worker, and citizen. This course will serve as a background for other courses, prepare you for future employment, and assist you with consumer decision making. (offered alternating years based on student requests)

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Business and Personal Law - .5 Laude Point This course provides the basic law knowledge every citizen should know. Topics covered include contracts, ethics, consumer law, employment and trial basics. This course lets us provide a well rounded curriculum in business and FBLA.

0.5 Credit **Grades: 10-12** **Prerequisite: None**

Accounting 1: - 1 Laude Point Does your future include a degree in business, marketing, management, finance or even cosmetology? No matter what field you go into, an accounting course will likely be required. Why not learn the basics of accounting in high school to help prepare you for a future accounting class? Accounting has many benefits, regardless of your career choice. The study of accounting is interesting and fun, yet thought-provoking. You will use Excel and accounting software to complete several assignments. Through accounting simulations, students apply their knowledge of accounting to real-world situations. Upon completion of Accounting I, students will know the fundamentals needed to succeed in a basic accounting course at a four-year university. (Offered alternating years based on student requests)

1 Credit **Grades: 9-12** **Prerequisite: None**

Accounting 2: - 1 Laude Point This class is designed to give students an opportunity to expand on their Accounting knowledge learned in Accounting I and better prepare them for a major in Accounting or another business career in college. This class starts with reviewing business transactions and completing the entire accounting cycle of recording transactions, preparing financial statements, and “closing the books” for small, single-owner service and merchandising businesses. Later more accounting concepts will be covered in more detail including accounting for inventories, cash, receivables, and fixed assets. Excel and accounting software will be utilized in great depth. (Offered alternating years based on student requests)

1 Credit

Grades: 10-12

Prerequisite: Accounting 1

Publications - Designed for students who wish to learn how to use desktop publishing software to produce a variety of publications. Students will build on skills learned in Word Processing. Students will incorporate their own writing and artistic skills to create publications for the school newspaper and the school yearbook. The goal is to produce quality published documents using computer software, photography, and various other media forms.

1 Credit

Grades: 10-12

Prerequisite: (Recommended B or better in English classes)

Financial Literacy – required –This portion of the course will help prepare students for planning and managing their personal finances. Through instruction and activities students will be introduced to the workings of budgeting, saving, investing, the dangers of credit and debt, taxes, insurance, consumer awareness and charitable contributions.

0.5 Credit

Grades: 12

Prerequisite: None

Computer Science

Computers are constantly being used today. From your job to your home, computers are everywhere. Computer science courses provide students with career direction, employability skills and the ability to use computer programs effectively.

Courses Taught in Computer Science:

Web 2.0
Introduction to Computers
Computer Applications I
Computer Applications II
Game Design

Course Descriptions

Introduction to Computers - This is a beginner level course with emphasis on basic computer skills. The course consists of an introduction to: basic vocabulary related to computers and word processing, Microsoft Word, the internet, web searching, maps and email.

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Computer Applications I - This course will provide students with instruction on the Microsoft Office Applications of Word and Excel. Certification is available from Certiport for one or all four of the Microsoft suite areas. Any student going into the workforce or furthering their education will want to know how to use these common computer software programs.

0.5 Credit **Grades: 9-12** **Prerequisite: Intro to Computers or basic computer proficiency**

Computer Applications II - This course will provide students with instruction on the Microsoft Office Applications of PowerPoint and Access. Certification is available from Certiport for one or all four of the Microsoft suite areas. Any student going into the workforce or furthering their education will want to know how to use these common computer software programs.

0.5 Credit **Grades: 9-12** **Prerequisite: Intro to Computers or basic computer proficiency**

Game Design - Students taking Game Design will begin drawing objects to create symbols and interactivity. Once students know how to create objects, they will add animations and special effects. By the end of the course, students will learn how to add sound and scripting to create interactive web graphics, banners and simple games. Students will learn then about effective game design. Students will design an assortment of computer games using event-driven design and programming design. The games created each semester may vary but could include: maze games, driving and/or flying games, Mario-type games, shooting and/or explosive type games, hide and seek two-player games, simulation games and brick games.

.5 Credit **Grades: 9-12** **Prerequisite: Intro to Computers or basic computer proficiency**

Web 2.0 – This course is designed to teach students about emerging Internet technologies such as blogs, social networking, social bookmarking, QR codes and more. Students will explore not only how to harness the power of these new technologies, but the implications these technologies have on their lives. Student will discuss proper use of web 2.0 technologies at home, school and in the workplace. They will also discuss digital citizenship and how student choices on the computer affect the world around them. Topics and programs may change from semester to semester as technology changes. Possible topics include: Internet Security (Personal, Computer, Avatars); Social Bookmarking (Delicious, Pinterest, Pearltrees, Symbaloo); Video Streaming (YouTube, Vimeo, MetaCafe, Hulu); Blogging (Blogger, Edublogs); As Web 2.0 tools continue to grow and expand in nature, the ability to collaborate online becomes more and more important. Students will also learn to create web pages using a variety of online web creation tools and get further in-depth by using Dreamweaver – the web design industry standard software tool. Topics such as tabular layout, frames and form design will be covered.

.5 Credit

Grades: 9-12

**Prerequisite: Intro to Computers or
basic computer proficiency**

ART

Courses Taught in Art:

Art I - 2D & 3D

Art II - 2D & 3D

Art III - 2D & 3D

Art IV A & B (Senior Art)

Graphic Design

Traditional Photography

Fiber Arts A & B

ART Course Descriptions

*There is a \$10 fee for all art courses. Students who produce more projects over and above the assignments, may have to pay additional fee (for example - more than one sterling silver ring)

Art I - 2D– An introductory course in design, art history, art terminology and related concerns; activities may include (but not limited to) drawing with various media, acrylic painting, reduction (EZ Cut) printmaking and papermaking.

.5 Credit (1 Semester)

Prerequisite: None

Art I - 3D– An introductory course in design, art history, art terminology and related concerns; activities may include (but not limited to) handbuilt pottery, wheel pottery, sculpture, jewelry (beadweaving), metals and glass (etching).

.5 Credit (1 Semester)

Prerequisite: None

Art II - 2D – Accelerated level of study in the areas explored in Art I - 2D. The student will have the opportunity to experience the use of more sophisticated art materials, concepts and techniques. Activities may include (but not limited to) drawing with various media, watercolor painting, intaglio printmaking, and paper arts (bookbinding).

.5 Credit (1 Semester)

Prerequisite: Art I- 2D

Art II - 3D – Accelerated level of study in the areas explored in Art I - 3D. The student will have the opportunity to experience the use of more sophisticated art materials, concepts and techniques. Activities may include (but not limited to) intermediate handbuilt pottery, wheel pottery, sculpture, jewelry, metals (lost wax cast silver rings), and glass (mosaics)

.5 Credit (1 Semester)

Prerequisite: Art I- 3D

Art III- 2D – The activities are a culmination of all previous art experiences in Art I and II, with an emphasis on sophisticated techniques, processes and materials. Activities may include (but not limited to) drawing with various media, oil, watercolor or acrylic painting, printmaking (monoprint and collagraph), paper arts (quilling, manipulated paper)

.5 Credit (1 Semester)

Prerequisite: Art II-2D

Art III- 3D – The activities are a culmination of all previous art experiences in Art I and II, with an emphasis on sophisticated techniques, processes and materials. Activities may include (but not limited to) advanced handbuilt pottery, potters wheel, art metals (fabrication), stained glass (copper foil technique), advanced jewelry.

.5 Credit (1 Semester)

Prerequisite: Art II-3D

Art IV - A– This course is designed for the serious and capable art student. The overall emphasis is to allow self-direction and independent expression through the mediums, techniques, and concepts previously learned, as well as the opportunity to investigate artistic mediums not yet explored. Students will choose the medium(s) suited to their interest and ability through a contractual agreement with the instructor. It should be emphasized that the Art IV student will be working more independently. Students considering going on into an art or design related field are highly encouraged to continue in the IV class, as they will provide a broad base of artistic knowledge and exploration, and prepare a portfolio for future use. Projected cost is \$10 - \$75 depending on materials used (see above). Replaces Senior Art

.5 Credit (1 Semester)

Prerequisite: Art III

Art IV - B– This course is designed for the serious and capable art student. The overall emphasis is to allow self-direction and independent expression through the mediums, techniques, and concepts previously learned, as well as the opportunity to investigate artistic mediums not yet explored. Students will choose the medium(s) suited to their interest and ability through a contractual agreement with the instructor. It should be emphasized that the Art IV student will be working more independently. Students considering going on into an art or design related field are highly encouraged to continue in the IV class, as they will provide a broad base of artistic knowledge and exploration, and prepare a portfolio for future use. Projected cost is \$10 - \$75 depending on materials used (see above). Replaces Senior Art

.5 Credit (1 Semester)

Prerequisite: Art III

Photography– This class is also an introduction to darkroom photography. Projects include (but not limited to) building a rudimentary “pinhole” camera, use a 35mm “point and shoot” camera, develop film and black and white photos in the darkroom, frame and dry mount the finished photographs. Photographic terminology and art history will also be explored, as well as some photo construction projects.

Graphic Design– Students will learn graphic design and commercial art techniques thru projects created by hand as well as using Photoshop on the computer. Projects may include (but not limited to) printing, enhancing digital images, manipulating/editing images on the computer, package design, calligraphy, text/font design, creation of print media (posters, flyers, ads, business cards, notepads, stationery, etc).

.5 Credit (1 Semester)

Fiber Arts - A– Students will explore projects and skills that they may use throughout their life as a hobby or a vocation. Students will learn to read instructions and follow patterns, as well as make up their own patterns. Projects may include (but not limited to) knitting, crocheting, needlecrafts, embroidery, latch-hook rugs, basketry, weaving, quilting, fabric painting, basketry, etc. as well as art history of those mediums, and the wellness associated with participating in fiber arts.

.5 Credit (1 semester)

Fiber Arts - B– Students will explore skills used in everyday life, such as (but not limited to) hand sewing techniques, hemming, sewing on buttons, snaps, zippers, grommets, use a sewing machine, understanding of different types of fabric, etc. Projects will include the creation of a “quiet” book, soft sculptures, quilt squares, bags, etc.

.5 Credit (1 semester)

***Please Note:** *Students may have an “art bill” if the student chooses to do more than one of the specific projects, purchase extra supplies or materials, chooses to make more than one of the required projects, or if the student breaks or loses some art equipment that they are responsible for.*

Technology and Engineering

Technology courses are designed to encourage the study of how people apply knowledge, scientific, mathematical and communication skills using various tools and materials to solve problems and meet human needs. The purpose of the curriculum is to prepare all students to function in an ever-changing technological society, develop employability, and provide the transition from school to gainful employment.

Courses Taught in Technology/Engineering Education:

- Intro to Technology
- Building Trades
- Furniture and Cabinet Making
- Metals 1
- Shielded Metal Arc Welding (SMAW) Techniques 1 – TC
- Gas Metal Arc Welding (GMAW) Techniques 1 – TC
- Intro to Engineering
- Electronics
- Coding & Programming
- Robotics/Adv. Robotics

Recommended Technology Course Sequence:

Grade 9	Grade 10	Grade 11	Grade 12
Intro to Technology Building Trades	Furniture & Cabinetry Metals 1	Furniture & Cabinetry Metals 1 SMAW GMAW	Furniture & Cabinetry Metals 1 SMAW GMAW

Course Descriptions

Intro to Technology - Designed to introduce students to a broad range of areas in Tech. Ed. Areas of study will contain but will not be limited to: construction, manufacturing, transportation, and engineering. The course will provide hands-on experience with processes, materials, tools, machines, management ideas, and the impacts of technology. Students will understand basic measurements, how to read a tape measure, research different possible careers in the areas of study, basic woodworking principles, basic metal manufacturing, automotive knowledge (small engines), and the importance of proper tool usage.

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Building Trades – This course is designed to introduce the student to the fundamentals of working safely and efficiently with both hand and power woodworking tools. The areas of instruction include: safety, machine operation, joinery, tool care and maintenance and finishing. This unit will build on the skills developed from basic woodworking in Intro to Tech Ed. Students will be able to use all necessary tools to make a finished product. Students will learn how to make something out of wood from a tree growing in the forest to a finished product and all the steps in between.

0.5 Credit **Grades: 9-12** **Prerequisite: Intro to Technology**

Furniture & Cabinet Making – Students will use the skills they obtained from Building Trades to plan, develop, and build a series of small projects or one big project for the semester. Students will be able to use all necessary tools to make a finished product.

1 Credit **Grades: 10-12** **Prerequisite: Intro to Tech & Building Trades(Recommend grade of C or better)**

Metals 1 - This course will cover the basic manufacturing processes used in the production of goods from metal. It will also allow the student to become familiar with the different types of metals and their properties. The student will learn basic skills in arc welding, cutting, tool usage, welding symbols, and safety.

1 Credit **Grades: 10-12** **Prerequisite: Intro to Technology**

Shielded Metal Arc Welding (SMAW) Techniques 1 TC – 1 Laude Point This class is articulated through Fox Valley Technical College (FVTC). It covers the process commonly known as stick welding. Upon completion of this course, the student will be able to weld in all positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Purpose/Goals

- Identify, terminology, nomenclature, electrode selection, power source equipment requirements, quality standards, limitations and variables.
- Perform fillet and groove welds in all positions on plain carbon steel and stainless steel fillet welds in the horizontal position using the shielded metal arc welding process.

1 Credit **Grades: 10-12** **Prerequisite: Metals 1**
(2 Credits FVTC)

Gas Metal Arc Welding (GMAW) Techniques 1 TC – 1 Laude Point This class is articulated through Fox Valley Technical College (FVTC). It demonstrates welding on steel sheet metals and plates. Emphasis is placed on axial spray, pulse spray and short circuit mode of transfer. Upon completion of this course, the student will be able to weld in all positions, read basic weld symbols, and have an understanding of written welding procedures.

Purpose/Goals

- Identify terminology, equipment, shielding gas and consumable requirements, limitations and quality standards.
- Perform fillet and groove welds on plain carbon steel in all positions with the short circuit and pulse spray mode of transfer; fillet and groove welds in the flat and horizontal positions with the spray transfer mode; and performance weld test to evaluate welders' abilities.

1 Credit **Grades: 10-12** **Prerequisite: Metals 1**
(2 Credits FVTC)

Engineering Courses

Intro to Engineering – In this course, focus is on the design and creation of real products with real functions. Students become reacquainted with The Design Process, and further hone their skills in 3D design and modeling. Emphasis is on higher level problem-solving skills in the areas of Science, Technology, Engineering, and Mathematics (STEM) as students devise solutions to real-world problems. Students interested in future coursework in Electronics, Coding/Programming, and Robotics are highly encouraged to enroll in this course, as in future years it will be a necessary prerequisite.

0.5 Credit

Grades: 9-12

Prerequisite: None

Coding/Programming – Tech is the new literacy! This course is intended to teach students coding as well as a much more powerful skill: technical sophistication! Course content includes hands-on lessons in two series of coding essentials: Developer Fundamentals and Web Basics. Participants will learn essential developer tools: the Unix command line, text editors, and version control with Git. Motivated learners will then advance to Web Basics, including: HTML, the universal language of the Web; CSS & Layout, which builds an industrial-strength website; and JavaScript, which lets you do cool things on web pages.

0.5 Credit

Grades: 9-12

Prerequisite: None

Electronics – This course will provide students with an understanding of electronics using Arduino and Raspberry Pi micro-controllers. By connecting basic electronic components to these micro-controllers, students will learn to make fun and interactive micro-controller apps. Units include: Powering Options; Power Connections; Introduction to Circuits; Electronic Basics using Resistors, Capacitors, LEDs; The Arduino Family of Controllers; Raspberry Pi Basics; and the basics of making your first Bot! Students will gain an understanding of technical capabilities and limitations of each micro-controller.

0.5 Credit

Grades: 10-12

**Prerequisite: Intro to Engineering or
Instructor Approval**

Robotics - 1 Laude Point Students will walk through the design and build of a mobile robot to play a sport-like game. During this process, they will learn key STEM principles, and robotics concepts. At the culmination of this class, they will compete head-to-head against their peers in the classroom, or on the world stage in the FRC Robotics Competition, the largest and fastest growing international robotics competition for middle and high school students.

1.0 Credit

Grades: 11-12

Prerequisite: Electronics

Advanced Robotics - 1 Laude Point This course will take the information learned in Robotics to the next level. This will be a more independent course and will follow some of the same concepts of Robotics.

1.0 Credit

Grades: 11-12

Prerequisite: Robotics

Music Education

LWHS music courses are designed to address a wide range of student skills and interests. Numerous performance opportunities, travel and competition are an integral part of the music program.

Courses Taught in Music Education:

- High School Band
- Choir
- Survey of Jazz & Polka Music
- Guitar & Keyboard
- Chamber Singers

Course Descriptions

High School Band– The High School Band performs a variety of music throughout the year, ranging from classical to pop. Performing opportunities include, concert band, solo/ensemble music festival, pep band, marching band, and all-conference band. As a member of the High School band, students will develop their instrumental skill, appreciation for music, and knowledge of music theory, history, and composition. All students will receive a calendar of required and non-required performances at the start of the school year.

NOTE: Due to the early performance schedule for this course, any drop/adds must be made **PRIOR** to the first day of the school year. Drop/add requests following first rehearsal may or may not be granted according to instructor discretion. Parent permission is required for drop/add requests to be considered.

1 Credit

Grades: 9-12

Prerequisite: Jr. High Band or instructor's approval

Survey of Jazz and Polka Music–In this course, students will learn and perform the Jazz and Polka music genres. Jazz and polka will be studied while examining the history, music theory, and present day relevance. Non-traditional instruments like piano, guitar, bass guitar, and accordion, are all necessary to have an outstanding program. Students can expect to perform in the community and be exposed to opportunities that other band students may not have.

1 Credit

Grades: 9-12

Prerequisite: Enrolled in band class and/or have permission from the band director

Choir– This is a performing group for singers. Class work will include: singing, writing, note reading, listening exercises, vocal technique and singing tests. Public performance is a mandatory part of the class grade.

1 Credit

Grades: 9-12

Prerequisite: None

Guitar & Keyboard – This course is designed to teach multiple levels of learning and playing on guitar, keyboard or both. Students will learn the basics and will then progress at their own level. Students will also test and perform in class on a regular basis, as a part of their grade. This course is a lab class and is designed for in-class practice, as well as instruction. Seating is limited to 20 students because of space and equipment.

0.5 Credit **Grades: 9-12** **Prerequisite: None**

Chamber Singers – This course is an advanced level performing vocal class. The class is eligible to vocalists by audition. The class will include evening concerts and performances. Styles to be sung and studied will vary, to include: jazz, madrigal, swing choir, pop and classical. There will be written elements in the class, also.

1 Credit **Grades: 9-12** **Prerequisite: Audition**

Other Offerings

Youth Options – Wisconsin’s Youth Options program allows public high school **juniors and seniors** who meet certain requirements to take post-secondary courses at a UW institution, a Wisconsin technical college or one of the state’s participating private nonprofit institutions of higher education. Approved courses can count toward high school graduation as well as for college credit.

This program opens the door for greater learning opportunities for motivated students who are considering a technical career, students wishing to start college early, or students who want to prepare themselves to enter the workforce immediately after high school graduation.

Parents/Guardians are responsible for satisfactory student attendance and transportation to and from the postsecondary institution. **Students will be required to reimburse the school district for tuition and fees if the student drops or fails the course.**

Students wishing to participate in the Youth Options Program should contact the school counseling office. Students must be registered for the program by September 30th if they wish to enroll for the spring semester and March 1st if they wish to enroll for the following fall semester. Information sheets are also available in the Counseling Office. **Students must have a 2.5 GPA to apply.**

Course Options – Through Course Options, students across the state will have new opportunities to accelerate their learning and earn college credits while in high school. For example, students could take advantage of unique courses offered by a neighboring school district or earn dual credit for courses offered by a university or technical college. It will also create opportunities for high schools to build or expand their own concurrent enrollment or transcribed credit programs in partnership with local institutions of higher education at no cost to the student. Specifically, the new Course Options law allows a pupil enrolled in a public school to take up to two courses at any time from an educational institution. Educational institutions are defined under the new law as: A public school in a nonresident school district; the University of Wisconsin System; a Technical College; nonprofit institutions of higher education; a tribal college; a charter school; and a non profit organization that has been approved by the Department of Public Instruction (DPI).

Career Pathway/School of Excellence: The School District of Manawa is working together with surrounding districts and creating “centers of excellence” which means that each site/district will have an area of expertise and students who are following a certain pathway will be able to take classes in other districts, as well as their own. If a student completes the sequence of courses required for their pathway, they will be eligible to receive a certificate acknowledging completion of their pathway. If you have any questions regarding this, please contact the School Counselor.

