

**SCHOOL DISTRICT OF MANAWA  
CURRICULUM COMMITTEE MEETING  
AGENDA**

**Google Meet joining information**  
**Video call link: <https://meet.google.com/csd-syvr-bqr>**  
**Or dial: (US) +1 470-485-9508 PIN: 512 692 328#**

**Date: January 4, 2023**

**Time: 4:45 p.m.**

**Hybrid Meeting Format (In-person Meeting for Board of Education at MES Board Room,  
800 Beech Street & Virtual Components)**

**Board Committee Members: Hollman (C), Riske, and Fietzer**

**In Attendance:**

Timer: \_\_\_\_\_

Recorder: \_\_\_\_\_

1. Consider Endorsement of Financial Literacy Proposal as Presented (Information / Action)
2. Consider Endorsement of Little Wolf High School Course of Study Guide as Presented (Information / Action)
3. Next Meeting Date: January 11, 2023 at 5:00 p.m.
4. Next Meeting Items:
  - a.
  - b.
5. Adjourn

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**Students choosing to excel; realizing their strengths.**

To: Board of Education  
From: Danni Brauer  
Date: 1/3/23  
Re: Financial Literacy at MES

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At the elementary level, financial literacy is embedded in the current curriculum for social studies and mathematics. Financial literacy standards have not been identified in the current curriculum maps, though.

Teachers will work in their PLCs in February to identify where the standards are being taught and ways financial literacy instruction can be improved.

1. Teachers will take time to review the financial literacy standards to be sure that they understand the expectations for each grade band (K-2, 3-5).
2. Teachers will begin with Social Studies curriculum maps to identify where standards are addressed. Teachers will add financial literacy standards to these units.
3. Teachers will review mathematics curriculum maps to find links to financial literacy standards and add standards as appropriate.
4. Teachers will get together in grade bands (K-2, 3-5) to identify standards that are not, yet, covered and agree upon the grade level and subject where they would fit the best.
5. Curriculum maps will be edited and sent to the Curriculum Committee for review.





**Students choosing to excel; realizing their strengths.**

To: Board of Education  
From: Dr. Abe El Manssouri  
Date: January 3, 2023  
Re: Grades 6-12 Financial Literacy

The purpose of this memo is to recommend options for addressing Financial Literacy for students in grades 6-12.

*The following document is the Wisconsin K-12 Personal Financial Literacy Standards:*

<https://dpi.wi.gov/sites/default/files/imce/standards/New%20pdfs/PersonalFinancialLiteracyStandards2020.pdf>

The 2017 Wisconsin Act 94 requires school districts to adopt academic standards for financial literacy and incorporate instruction into the curriculum in grades kindergarten through 12 . The Wisconsin Standards for Personal Financial Literacy are divided into six strands: • Financial Mindset • Education and Employment • Money Management • Saving and Investing • Credit and Debt • Risk Management and Insurance These six strands combine to support the learning of personal financial literacy as students advance to the workplace or post-secondary educational opportunities. The personal financial literacy skills and knowledge learned in Wisconsin schools support all students in becoming college and career ready. Wisconsin communities are made stronger through these positive results for students.

	<b>Option A</b>	<b>Option B</b>	<b>Option C</b>
Description	Financial Literacy/Employability Skills <u>course during senior year.</u> Infusion of financial literacy concepts in all other grades.	Financial Literacy offered <u>at 10th-grade</u> Infusion of financial literacy concepts in all other grades.	Add a <u>middle school course</u> that teaches financial literacy, test-taking skills, and goal setting (Sandy took a similar class to start college that was very helpful), <u>plus keep it as a senior semester class.</u> Infusion of financial literacy concepts in all other grades.
Plan	<ul style="list-style-type: none"> <li>➤ Semester course is offered in Senior year.</li> <li>➤ Additional financial literacy concepts will be taught via lessons pushed through Xello during homeroom in all middle and high school grades. (Previously, have been coordinated through the guidance counselor in grades 6 -11).</li> </ul>	<ul style="list-style-type: none"> <li>➤ Current: Seniors take in 2022-23</li> <li>➤ Next year: Juniors and Seniors take in 2023-24</li> <li>➤ Following year: Sophomores and Juniors take in 2024-25</li> <li>➤ Years after: Sophomore status course</li> </ul> <p>OR if transitioning in one year, then sophomores, juniors, and seniors would need to take the class next year.</p>	<ul style="list-style-type: none"> <li>➤ Add a middle school course to the rotation so students have intro material for financial literacy (debit cards, savings, balancing transactions, etc.). We could also help students learn test-taking strategies, conflict resolution, problem-solving, etc.</li> </ul>
Advantages	<ul style="list-style-type: none"> <li>➤ Juniors who are ahead academically can still take the course in junior year.</li> <li>➤ Will not have a major impact on other classes and the schedule.</li> <li>➤ Course can continue to have more advanced financial and employability skill components to help students transition to their next steps after graduation.</li> <li>➤ No need to change to semester offerings for</li> </ul>	<ul style="list-style-type: none"> <li>➤ Structured lessons at an earlier age to introduce students to financial literacy prior to or early on in employment.</li> <li>➤ A 2-year plan allows the instructor to only lose one additional agriculture class (for two years) in the transition.</li> <li>➤ Lessons could still be embedded into each grade level.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Earlier structured learning as students are more likely to enter the workforce.</li> <li>➤ Focused improvement on skills that students are lacking could also help with behavior and test-taking.</li> <li>➤ Ability to dig deeper and reinforce learning as seniors.</li> <li>➤ We have an eight-period day, and this may be a valuable addition.</li> </ul>

	<p>10th and 11th grade.</p> <ul style="list-style-type: none"> <li>➤ Sandy will not need to offer less of her course offerings (one or two-year impact in the next proposal).</li> <li>➤ Not changing it helps with Youth Apprenticeship requirements.</li> </ul>		
Challenges	<ul style="list-style-type: none"> <li>➤ Creating PD for teachers K -11 to infuse financial literacy into course contents. Solution: Sandy Cordes is willing to curate this information and assist peers with resources. We could roll out similar to ISTE standards. Solution: we intend to do a staff survey to see where financial literacy/money management is already being taught.</li> <li>➤ Required for graduation, so vital we keep a close watch on at-risk seniors or offer as a summer school class.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Younger students may lack the maturity or experience, or interest to tackle some of the course topics (e.g., how to buy a house, investing, resumes, etc.) as compared to embedding smaller units into each grade. Solution: change the curriculum to meet students where they are at. The only other course all seniors take is English, so that may change that curriculum also.</li> <li>➤ Youth Apprenticeship and other scheduling challenges, including Laude points.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The schedule would be impacted by an additional course being offered. We do not know who the instructor would be.</li> <li>➤ New curriculum would need to be written. Solution: Sandy is willing to help, and there are a lot of available resources for this course that would be free or low-cost.</li> </ul>

# Course of Study Guide

2023-2024

## Little Wolf High School



515 E. Fourth Street  
Manawa, WI 54949  
(920) 596-5800

“Creating solid foundations for lifelong success.”

Approved by the School District of Manawa Board of Education 01/17/2022



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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**

### **NONDISCRIMINATION AND ACCESS TO EQUAL EDUCATIONAL OPPORTUNITY**

The Board is committed to providing an equal educational opportunity for all students in the District.

The Board does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes") in any of its student program and activities.

This policy is intended to support and promote nondiscriminatory practices in all District and school activities.

School District of Manawa, Policy 2260, updated September 2021

# Wolf Pride



“Creating solid foundations for lifelong success.”

## ~Tips for School Success~

- ❖ Arrive to class on time with appropriate materials (pen, pencil, notebook, textbooks, folder, Chromebook, 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, counselors, 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

A Little Wolf High School diploma shall be granted upon successful completion of a total of 24 credits for the Class of 2023 and **25 credits for the Class of 2024** and beyond in grades 9 through 12 to include:

- 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/Employability Skills 0.5 credits
- Elective Courses 8.5 credits

***Electives for 2024 and beyond 9.5 credits***

- In order to earn a high school diploma, a student must successfully complete a civics assessment in accordance with State statute.

# Grade Level Requirements

**Students in the 2023-2024 school year** are required to have earned a minimum of:

- 6 credits to be considered a sophomore
- 12.5 credits to be considered a junior
- 19 credits to be considered a senior
- 25 credits to graduate

**High school graduation requirements may be different from the entrance requirements for specific colleges and universities. The requirements listed above are the 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.**

# 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 transcript note will be provided to the colleges explaining our 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. Students have until September 30 to register for additional AP courses offered through Wisconsin Virtual School in order to have the maximum time allotted to complete these courses. The counselor will meet each qualifying student after each semester to continue to update their Laude status. In the event of a tie when the Laude Scores are calculated, the ACT scores will be used to declare the winner. In the event of tied ACT Scores, the Highest Laude Point Score Title will be shared.

## Cum Laude or Higher Placement

Students must meet two criteria to earn Laude Distinction:

- Cumulative GPA of 3.4 or higher
- Laude Score of 4 or higher

**Cum Laude** (With Honor/Distinction: Laude Score of 4-17.49)

**Magna Cum Laude** (With Great Honor/Distinction: Laude Score of 17.5-28.79)

**Summa Cum Laude** (With Highest Honor/Distinction: Laude Score of 28.8+)

## Laude Point Courses

- Start College Now Course(s): 0.5
- AP Courses & CAPP Eng.: 1.5
- American Lit & College Prep Eng.: 1
- Economics: 0.5
- Physics: 1
- Human Biology: 1
- Biology 2: 1
- Chemistry 1
- AP Chemistry: 1.5
- AP Biology: 1.5
- Pre-Calculus/Trigonometry: 1
- Statistics: 1
- Animal Science TC: 1
- Ecology TC: 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 3yrs + 1st on class A Solo/Ens.)
- Robotics/Advanced Robotics: 1
- SMAW/GMAW Welding Courses: 1

## How do I calculate my Laude Score?

Figure out how many Laude points you have using the listing of Laude courses and their point value and then your GPA.

**This table is just a guide. To calculate your actual laude score you should multiply your Cumulative GPA by the laude points earned. (example 3.827 GPA x 8.5 Laude Points = 32.53)**

		G.P.A.						
		4.0	3.9	3.8	3.7	3.6	3.5	3.4
Honors Points	15	60	58.5	57	55.5	54	52.5	51
	14	56	54.6	53.2	51.8	50.4	49	47.6
	13	52	50.7	49.4	48.1	46.8	45.5	44.2
	12	48	46.8	45.6	44.4	43.2	42	40.8
	11	44	42.9	41.8	40.7	39.6	38.5	37.4
	10	40	39	38	37	36	35	34
	9	36	35.1	34.2	33.3	32.4	31.5	30.6
	8	32	31.2	30.4	29.6	28.8	28	27.2
	7	28	27.3	26.6	25.9	25.2	24.5	23.8
	6	24	23.4	22.8	22.2	21.6	21	20.4
	5	20	19.5	19	18.5	18	17.5	17
	4	16	15.6	15.2	14.8	14.4	14	13.6
	3	12	11.7	11.4	11.1	10.8	10.5	10.2
	2	8	7.8	7.6	7.4	7.2	7	6.8
	1	4						

## 4 Yr. Course Planning Worksheet

FRESHMAN		SOPHOMORE	
English 9	1	World Literature 10	1
US History	1	World History	1
Biology	1	Physical Science, Earth & Environmental Science, Animal Science TC, Biology 2, AP Biology	1
Math: <b>Choose</b>	1	Math: <b>Choose</b>	1
P.E. 1 Health	.5 .5	P.E. - <b>Choose</b>	.5
Up to 2 elective credits	1-2	Up to 3 elective credits	2-3
<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6</b>	<b>MUST TAKE AT LEAST 6.5 CREDITS</b>	<b>6.5</b>
JUNIOR		SENIOR	
Course Name	Credits	Course Name	Credits
English 11, American Literature 11 or A.P. English-Literature and Comp.	1	English 12, College Prep English or CAPP English.	1
Chemistry, Biology 2, Physics, Earth Science, AP Chemistry, or AP Biology	1		
Math: <b>Choose</b>	1	Employability Skills Financial Literacy	.5
Global Studies Government	.5 .5	Up to 4 Elective Credits	
P.E. - <b>Choose</b>	.5		
Up to 3 Elective Credits	2-3		
<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6.5</b>	<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6</b>

## Post-Secondary Admission Tips

### **University of Wisconsin System**

Now, all UW System schools require you to complete at least 13 credits in the core subjects, plus four credits in subjects you choose (foreign language, art, music, or computer science). Technical and career courses may also be accepted for a portion of your elective credits.

English 4 credits  
Mathematics 3 credits  
Natural Science 3 credits  
Social Science/History 3 credits

In addition to the “core college preparatory” credits identified, students need to complete a minimum of four elective credits as follows:

Electives: An additional 4 credits may be chosen from English, mathematics, natural science, social science/history, foreign language, fine arts, computer science, and other academic areas. (Two years of a single foreign language are required for admission to UW-Madison, and are encouraged at other UW System campuses.) Some UW System campuses may also accept technical and career courses for a portion of these 4 elective credits.

### **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**

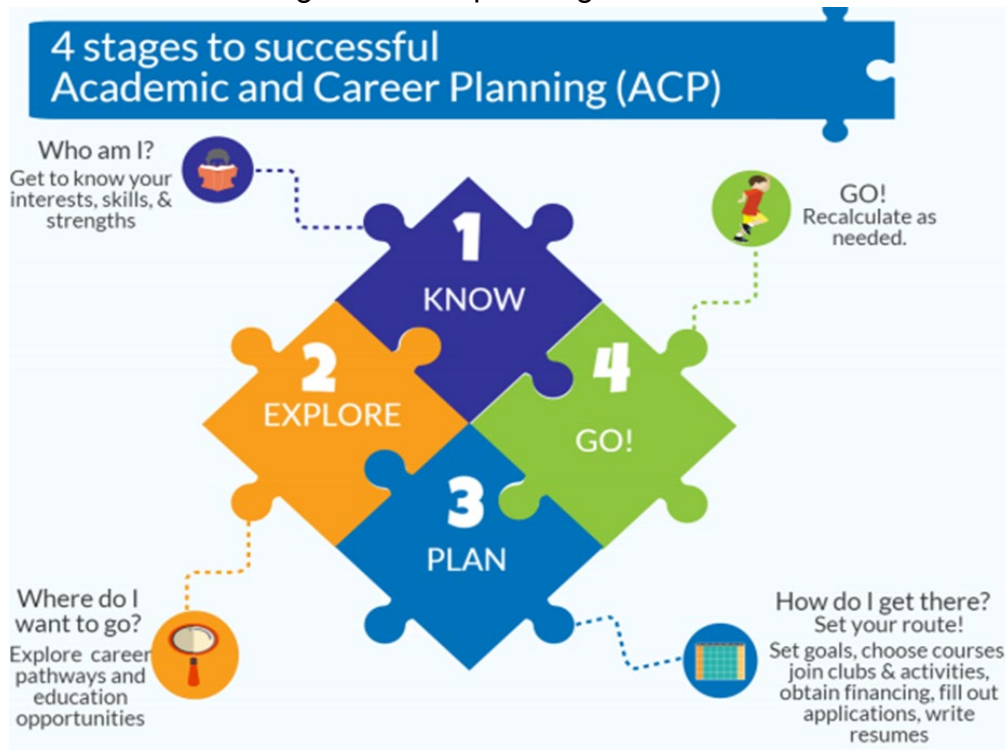
Students must meet the following minimum requirements in order to be eligible for admission:

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 (ACP)

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.



# Transcripted Coursework



## Transcripted 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 High School.
- The curriculum is devised by FVTC and the student is registered in both the high school and FVTC course.
- The student receives a grade from the high school as well as from FVTC and is posted on an official FVTC transcript.
- The high school maintains the student record; FVTC also maintains its own student record.

For more information: [www.fvtc.edu/techprep](http://www.fvtc.edu/techprep)

Little Wolf High School courses:

### Transcripted Credit

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

# NCAA Divisions I and II Initial-Eligibility Requirements

## Core Courses

- **NCAA Division I require 16 core courses. NCAA Division II currently requires 16 core courses.**
- **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).
  - It is possible for a Division I college-bound student-athlete to receive athletics aid and practice with the team if he or she fails to meet the 10-course requirement but will not be able to compete.

## Test Scores

- Colleges and/or scholarship programs may still require test scores.
- **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](http://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.
- The Division I core GPA requirement is a minimum of 2.3000.
- The Division II core GPA requirement is a minimum of 2.2000.
- 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 years 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.

Recommended Sequence of Available English Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	English 9	World Literature 10	English 11	English 12
1			American Literature 11	College Prep English 12
1.5			A.P. English Literature & Composition	CAPP English 12

## 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.

**1 Credit**

**Grades: 9**

**Prerequisite: None**

**World Literature 10 – *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.

**1 Credit**

**Grades: 10**

**Prerequisite: English 9**

**English 11 - one choice of three for junior students** — This one credit course is designed to meet the needs of those students who do not intend to pursue further education at a four-year university after high school. This course presents an integrated reading and writing curriculum with traditional and modern American literature selections and associated writing assignments and essays. Students read and learn about stories, poems, plays, novels, themes, and authors in a historical context. Communication, language, and vocabulary usage skills will be emphasized. Individual and group projects and ACT test preparation/practice will also occur throughout the year.

**1 Credit**                      **Grades: 11**                      **Prerequisites:**                      **World Literature 10**

**American Literature 11 – one choice of three for junior students — 1 Laude Point--** This one credit course is designed to meet the needs of those students who plan to pursue further schooling but 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 literary analysis essay, documented persuasive essay, and a detailed character comparison essay. Individual and group projects and ACT test preparation/practice will also occur throughout the year.

**1 Credit**                      **Grades: 11**                      **Prerequisites:**                      **World Literature 10**

**A.P. English-Literature and Composition --one choice of three 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 way’s 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 take A.P. Literature and Composition are encouraged to check with any college or university they plan to attend to verify whether that school will assign credit for AP coursework.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: World Literature 10 (Grade of A)**

**English 12** – *one choice of three for senior students*. This on credit course is designed to meet the needs of students who will not be taking CAPP or College Prep English Coursework. This course is focused for students who plan to enter the workforce or an apprenticeship program at a technical college. Students will practice basic narrative, informative, and persuasive writing, as well as, strengthen reading skills. Basic vocabulary and grammar/editing skills will be emphasized. Reading will consist of both fiction and informational text throughout the course.

**1 Credit**                      **Grades: 12**                      **Prerequisite: English 11 (or)**  
**American Literature 11 (or)**  
**A.P. English Lit. & Composition**

**College Prep English 12**--*one choice of three for senior students* --**1 Laude Point** --This one credit course is designed to prepare students for post-secondary training at a four-year university or for a two-year technical college. Integrated reading and writing skills will be the focus, as well as higher level speaking, vocabulary, and critical thinking skills. Various study and note-taking skills important for the college-bound student will be introduced and practiced. A research paper covering a future career will be developed practicing both MLA and APA citation format. Reading will focus on informational text and fiction, with an emphasis on annotation and close reading skills. In addition, guidance and support will be offered to assist students with the transition between high school and college.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: American Literature 11 (or)**  
**A.P. English Lit. & Composition**

**CAPP English 101 (Dual Credit College Course)/ Crime and Punishment in American Society** --*one choice of three for senior students*--**1.5 Laude Points** -CAPP English focuses on 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 fiction and nonfiction texts alike. This course will prepare students for college and will earn them 3 credits equivalent to college English at over 100 Universities nationwide, including all the UW system campuses. \*\*There is a reduced college tuition cost for this course as college credit is awarded. **Student will be enrolled at UW Oshkosh.**

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: American Lit. 11 (Grade of A) (or)**  
**A.P. English Lit. & Composition**  
**(Grade of B or better)**

**English Electives—the following may be taken IN ADDITION TO, not in place of, required English coursework**

**Recreational Literature-** Designed for non-college bound student (not a college preparatory class) To encourage readers to value literature as a leisure activity, students select and read eight-ten books within specified literary genres (both fiction and nonfiction) approved by instructor. In addition to keeping a reading log, each book requires the completion of a final project. **This course is provided through Erving.**

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

**Oral/Interpersonal Communication:** The communication process, perception, and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation. **This is provided through Erving (NTC & NWTC)**

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

# 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.

Recommended Sequence of Available Math Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	Algebra (or)	Geometry (or)	Geometry (or)	Geometry
None	Geometry	Advanced Algebra (or)	Advanced Algebra (or)	Advanced Algebra
None		Trade Math	Trade Math (or)	Trade Math
None				Senior Math
1			Pre-Calculus & Trigonometry (or)	Pre-Calculus & Trigonometry
1			Statistics	Statistics
1.5			A.P. Calculus AB	A.P. Calculus AB

**NOTE:** All students who qualify to take Algebra in their 8<sup>th</sup> 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 B- 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**

**Grade: 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**

**Advanced Algebra** 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**

**Trade Math** – Intended for students considering attending a technical college or the world of work. Focuses on 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. **NOTE: Trade Math as a junior class needs to be approved by a teacher.**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: 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**  
**(Recommend 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.**

**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  
(Recommend 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.

Recommended Sequence of Available Science Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	Biology 1	Physical Science (or)	Physical Science (or)	Physical Science (or)
None		Earth & Environmental Science (or)	Earth & Environmental Science (or)	Earth & Environmental Science (or)
1			Chemistry (or)	Chemistry (or)
1			Biology 2 (or)	Biology 2 (or)
1			Human Biology (or)	Human Biology (or)
1			Physics (or)	Physics (or)
1		Animal Science TC (or)	Animal Science TC (or)	Animal Science TC (or)
1		Ecology TC (or)	Ecology TC (or)	Ecology TC (or)
1.5		AP Biology	AP Biology (or)	AP Biology (or)
1.5			AP Chemistry	AP Chemistry

**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**

**AP Biology – 1.5 Laude Point** – AP Biology is a laboratory science class designed to simulate the first semester, introductory Biology class at any college or university. For most students, this course enables them to take the second semester of Biology for any science related major, or fulfill the science requirement for non-science majors. This course is approved by the College Board. As such it is based on the 6 Big Ideas and seven science practices outlined in the curriculum framework. We will study the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena.

**1 Credit**                      **Grades 10-12**                      **Prerequisite: Biology 1 (B or better)**

**Earth & Environmental Science** – 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. The course also provides information on human influence on the environment.

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

**Chemistry 1 – 1 Laude Point** 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, Physical Science, & Beginning Algebra (Recommend grade of C or better)**

**AP Chemistry - 1.5 Laude Point** AP Chemistry is a laboratory science class designed to simulate the first semester, introductory chemistry class at any college or university. For most students, this course enables them to take the second semester of chemistry for any science related major or fulfill the science requirement for non-science majors. This course is approved by the College Board. As such it is based on the 6 Big Ideas and seven science practices outlined in the curriculum framework. AP Chemistry is open to all students that have completed chemistry with a B or better and who wish to take part in a rigorous and academically challenging course.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: B or better in 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: 11-12**                      **Prerequisite: Biology 1 & Physical Science (or) Chemistry (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 includes 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 for future use.**

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

**Physics 1 – 1 Laude Point** A laboratory-oriented course designed to investigate the physical aspects of our universe and 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, Geometry, Physical**  
**Science (or) Chemistry. (grade of**  
**B or better, recommend Algebra 2)**

**Animal Science TC – 1 Laude Point –** This class is designed for the person interested in animals. Students will learn about livestock, agriculture, and 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 designed as 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.**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: Biology 1 (with C or above)**

**Ecology TC- 1 Laude Point** - This class examines the relationships and interrelationships of living organisms in their environment. Students study natural selection and speciation, environmental conditions, populations and competition, succession, energy flow and biogeochemical cycles, and the diversity of ecosystems.

**1 Science or Elective Credit**                      **C or better earns 2 credits at Fox Valley**  
**Technical College (transcribed credit)**

**Grades: 10-12**                      **Prerequisite: C or better in Biology 1**

**Astronomy-** Astronomy deals with the matter and energy in the universe. We will cover various topics including early astronomy, space exploration, the solar system, search for extraterrestrial life, stars and constellations to name a few. This course allows students to choose from a variety of assignments that are geared toward their interest and ability level to learn the content. The course includes computer simulations, labs, night sky observations and visits to the UWSP planetarium. **This is provided through Erving**

**1 Credit**                      **Grades: 9-12**                      **Prerequisite: None (Algebra 1 with C or better)**

**Anatomy & Physiology-** A concentrated course on the human anatomy and physiology that demands focused study and preparation in anatomy and physiology. Students should be prepared to take quizzes and tests both on MOODLE and Paper Copy. Most Labs are virtual as we are in an ERVING classroom. Topics Include: \*skeletal and muscles \*nervous system \*cardiovascular \*endocrine system. **This is provided through Erving**

**0.5 Credit**                      **Grades 11-12**                      **Prerequisite: A or B in the Biology. Except  
3-6 hours of study for per week.**

**Medical Terminology-** In medical terminology students will learn the component parts of medical terms such as prefixes, suffixes and word roots. Students will learn the rules for building and defining medical terms. Emphasis is placed of the correct spelling of the terms. Students will practice formation, analysis and reconstruction of medical terms. Students will be introduced to diagnostic, therapeutic, symptomatic, and surgical terminology for the body systems. **This is provided through Erving**

**0.5 HS Credit**                      **Grades 11-12**                      **Prerequisite: None**  
**3 FVTC or NTC Credits**

**Body Structure & Function-** A full-year study in the structures and functions of the human body systems. Units studied include basic biochemistry, cytology, histology and twelve systems of the human body. Several animal dissections are part of the lab component, including the dog shark, white rat and domestic cat. Organ dissections of the heart and kidney are also presented. Virtual labs are also used for higher level understanding. This course would be of special interest to students interested in health and animal sciences. It is offered as Dual Credit through the NTC campus in Wausau. All Tests are taken on the CANVAS learning platform. Students must earn a grade of B or higher to receive the dual credit from the technical college. Students earning a passing grade less than a B will only receive the high school credit. **This is provided through Erving**

**1 HS Credit**                      **Grades: 10-12**                      **Prerequisite: Biology with a B or higher**  
**3 NTC Credits**                      **Recommendation from Teacher/Counselor**

**Intro to Environmental Studies-** This course presents an overview of the interrelationships between humans and the environment. The material presented in the first one-third of the course focuses on important ecological concepts. The remainder of the course deals with human influence on the environment. The ecological concepts are used throughout to identify, understand, and provide a basis for proposing possible solutions to contemporary environmental problems. Overall, this course will provide the student with a better understanding of how humans can more positively affect the environment in which they live. Students will need access to internet, email and the University's course management system Canvas. Designed to apply toward the UWRF general education Ethical Citizenship requirement. **This is provided through Erving (UWRF)**

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

**Intro to Health Careers-** As a student, you will learn more about professionalism in a hospital or clinic setting along with communication skills it takes to work with a variation of health professionals in a busy workplace. Students will also learn the importance of patient privacy and confidentiality and why it is so important for you to know. This course will allow you to explore the job descriptions of several health careers while learning the personal characteristics needed to be successful in those careers and the career planning necessary when entering the field of medicine. **This is provided through Erving (NTC)**

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

**Customer-Focused Caregiving-** Do you want to learn more about customer service? This two credit on-line course will allow you to learn how healthcare workers function professionally in the healthcare setting. Also, this course will allow you to understand how passionate communication fosters healing of the human body. **This is provided through Erving (NTC)**

**0.5 Credits                      Grades: 11-12                      Prerequisite: None**

**Culture of Healthcare-** Prepares learners to work in the healthcare environment as part of a healthcare team. Learners will investigate the healthcare community, patient privacy standards, and the professional behavior that is expected in today's medical community. Learner will examine various aspects of verbal and written communication skills, customer service principles, and problem solving techniques necessary to be a vital member of the healthcare workforce. **This is provided through Erving (NWTC)**

**0.5 Credits                      Grades: 11-12                      Prerequisite: None**

## 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 provide needed perspective in addressing the past, the present, and the future.

<b>Recommended Sequence of Available Social Studies Courses</b>				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	U.S. History	World History	Government	
None			Global Studies	
None			Sociology (or)	Sociology
0.5			Economics (or)	Economics
1.5			A.P. Psychology (or)	A.P. Psychology
1.5			A.P. U.S. History	A.P. U.S. History

### Course Descriptions

**U.S. History**– 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. Democratic republic, 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 full year. The class will be taught using a mix of chronological and thematic approaches for a better understanding of our history. We live in a country with a rich history that shapes the American experience we share today and will share in the future.

**1 Credit                      Grade: 9                      Prerequisite: None**

**World History** – 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 relies heavily on the study of primary and secondary sources.

**1 Credit                      Grade: 10                      Prerequisite: US History**

**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** – 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 maximizing prices and the role of government. At the end of the quarter, the class will switch to macroeconomics, the study of the economy. Topics of study will include; GDP, economic growth, money, banking, the Federal Reserve and international trade. **Note: 10<sup>th</sup> grade upon teacher approval.**

**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 human behavior and mental processes. 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 question.

**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. **Note: 3.0 GPA.**

**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 US History events and issues. 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 weigh the evidence and interpretations presented in historical scholarship. An AP US History course should develop the skills necessary to arrive at conclusions based on 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 High School. Cost is approximately \$93.00. Note: 10<sup>th</sup> grade upon teacher approval.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: U.S. History**  
**(Recommend grade of B or better)**

**Global Studies**– Students may take this course their 11<sup>th</sup> or 12<sup>th</sup> 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.

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

**Government**– This portion of the course provides the student an opportunity to acquire detailed knowledge of the Constitutional Republic 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: 11-12**                      **Prerequisite: None**

**Military History**- The Military History course is designed to increase students critical thinking abilities by examining a number of famous battles and conflicts throughout history. Students will study the equipment, tactics, and strategies used in various conflicts from multiple perspectives. Students will examine primary source material in an effort to determine what really happened, and to gain a better understanding of the reliability, limitations, and usefulness of a source. **This is provided through Erving**

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

**Human Behavior-** Human Behavior is a social psychology course, which explores common factors which stimulate a wide variety of human behaviors. Basically, it's a chance to gain an understanding of why we act the way we do, and why people react to us the way they do. The course is primarily lecture with some project work. **This is provided through Erving**

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

**Current Events-** This class will deal with the major issues concerning both the United States and the world today. Students will learn about the differing perspectives held by people around the contemporary world. Emphasized in this class will be the relationship that the United States has with the rest of the world and the impact that has on American society. Also covered in this class will be current events focusing on American domestic issues as well as on foreign policy. Many of the topics covered in this class will change from semester to semester to encompass our ever-changing world. **This is provided through Erving**

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

**World Cultures-** This course will be exploring the world and its cultures. The primary focus of the course will be through the lens of geography, whether we're learning about where different countries are throughout the world, their landscape, their resources, their culture, their food, and their customs. The course will cover each major region of the world and we'll be covering a broad examination of the region as you focus in each unit on a specific country, region, or group of people to research more thoroughly and then you'll share your findings with the class. **This is provided through Erving**

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

**Intro to American Government-** This course introduces American political processes and institutions: focusing on rights/responsibilities of citizens and the process of participatory democracy. Examines separation of powers and checks/balances & the roles of different groups. **This is through Erving**

**1 Credit                      Grades: 11-12                      Prerequisite: None**  
**3 NWTC Credits**

**Psychology-** This course enables students to gain knowledge of such topics as perception, motivation, emotion, memory and thought, the brain and behavior, conflict, stress, personality, abnormal behavior and experimentation. A psychology course can help students better understand themselves and others. Any student who plans on any type of post high school training should consider this course. **This is through Erving.**

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

**Intro to Diversity Studies-** Basic American values of justice and equality by teaching vocabulary, history of immigration/conquest, transcultural communication, legal liability, multicultural majority/minority relations, ageism, sexism, gender, sexual orientation, the disabled/ADA. **This is provided through Erving (NWTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**3 NWTC Credits**

**Intro to Diversity Studies-** In this academic setting, patterns of current and historical relationships between different racial, ethnic, religious, disabled, gender, and LGBTQ+ populations are analyzed. Every informed opinion is welcome. Social Scientists have long been studying and discussing the importance of diversity. Come and experience a fun and challenging social science course where students often report, "I can't believe how much I learned!". **This is provided through Erving (NTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**3 NTC Credits**

**Developmental Psychology-** Defines human development; examines theories; heredity and environmental effects; prenatal development and birth; evaluates biosocial, cognitive psychosocial development through the life span; aging, death, and dying. **This is through Erving.**

**1 Credit**

**Grades: 11-12**

**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.

<b>Recommended Sequence of Available World Language Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Spanish 1	Spanish 1	Spanish 1	Spanish 1
None		Spanish 2	Spanish 2	Spanish 2
1			Spanish 3	Spanish 3
1				Spanish 4

## Course Descriptions

**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. **This is provided through Erving**

**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. **This is provided through Erving**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: Spanish 1**  
**(Recommend 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. **This is provided through Erving**

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: Spanish 2**  
**(Recommend 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. **This is provided through Erving**

**1 Credit**                      **Grade: 12**                      **Prerequisite: Spanish 3**  
**(Recommend grade of C or better)**

**French 1-** It is the goal of this course to not only learn of the French language and culture but to use it! This course will establish basic French oral and written communication skills and knowledge of the French language and culture. This will be accomplished through the use of “hands on” activities including classroom drama, conversational skits, written composition, reading, music, and individual/group projects. Students will need to buy a specific French dictionary. This is a Blue Jeans class. Cost: \$350 per student, per semester for a total of \$700 for the year. **This is through Erving (Full year)**

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

**French 2-** This course will establish and improve French oral communication skills and also increase knowledge of the le monde Francophone. While utilizing a cultural framework of actual, everyday French activities and cultural items, the student will also increase grammar and writing skills by speaking every day! The goal of this course is to prepare student to “survive” in a French speaking country by communicating in the target language: French! Students will need to buy a specific French dictionary. This is a Blue Jeans class. Cost: \$350.00 per student per semester for a total of \$700.00 for the year. No textbooks. **This is provided through Erving**

**1 Credit                      Grades: 10-12                      Prerequisite: French 1**

**German 1, 2, 3, 4:** This is through Erving (Full Year)

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

**Japanese 101-** Study of language fundamentals with emphasis on development of listening and speaking skills. Practice with reading and writing. Japanese script (hiragana, katakana and kanji) is taught from the beginning of the course. Presumes no previous language study. University Studies Requirement Met: World Language, Culture, & Philosophy Offered: Fall, online and asynchronous. **This is through Erving (UW Superior)**

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

**Japanese 102-** Continuation of JAPA 101. Appropriate for someone with up to two years of high school Japanese. **This is through Erving (UW Superior)**

**1 Credit                      Grades: 9-12                      Prerequisite: Japanese 101**

**American Sign Language-** Relating to the deaf culture including non-manual grammatical markers, signing, fingerspelling, classifying and the technology related to deafness. **This is through Erving (NWTC)**

**1 Credits                      Grades: 11-12                      Prerequisite: None**  
**3 NWTC credits**

# Physical Education & Health

(Physical Education 1.5 credit- Health 0.5 credit)

The physical education and health curriculum focus on understanding the human body, enjoying exercise, and maintaining a desirable level of physical fitness. **Note:** In grades 9-12 students must take at least 1.5 credits of physical education incorporating effects of exercise, health-related fitness, and lifetime activities. The credits must be earned over **three separate years**.

Recommended Sequence of Available Physical Education & Health Courses				
Laude Points	Both Required Grade 9	Grade 10	Grade 11	Grade 12
None	Physical Ed 1	Physical Ed Elective (or)	Physical Ed Elective (or)	Physical Ed Elective (or)
None	Health	Personal Fitness	Personal Fitness	Personal Fitness
None			Team Sports	Team Sports

## Course Descriptions

\*Students have to complete at least two or more Physical Education classes between 10th and 12th Grade to earn their remaining PE Credits.

**Physical Education I** – required – Freshman Course. Units covered are geared toward individual and team sports. The units covered are flag football, ultimate frisbee, disc golf, volleyball, basketball, weight training, fitness, badminton, softball (seasonal), OMNIKIN, Tsegball, Eclipse Ball, kickball, and Pickle Ball.

**0.5 Credit**                      **Grade: 9**                      **Prerequisite: None**

**Health** :- required – A Wellness Decision 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**                      **Grade: 9**                      **Prerequisite: None**

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

**0.5 – 1 Credit                      Grade: 10-12                      Prerequisite: Physical Education 1**

**Personal Fitness** – 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 cardiorespiratory endurance activities and wide-ranging weight training exercises. Course includes lectures 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.

**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, mat ball, OMNIKIN, soccer, Pickle Ball, speedball, etc.

**0.5 – 1 Credit                      Grades: 11-12                      Prerequisite: 11th or 12th Grade**

**Additional Physical Education Options:**

- A student who participates in a sport is eligible to substitute an English, social studies, mathematics, or science course for one-half (.5) credit in lieu of physical education. The following criteria must be met in order to complete this:
  - A. Student (not a manager) must participate in a H.S. sport for an entire season.
  - B. Student must submit a verification form completed by the coach no later than two (2) weeks after the conclusion of the season.
  - C. The student must be an athlete who is eligible to practice for the entire season.
- A student can take one-half credit of PLATO PE to meet physical education requirement upon the teacher's approval for special circumstances.
- A student who participates in marching band for 3 H.S. years, confirmed by a verification form completed by the band director, will be eligible for one-half (0.5) credit of P.E.
- Waivers are not approved for physical education credit.

# Agriculture/ Financial Literacy

Agriculture courses are for any student who has an 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.

<b>Recommended Sequence of Available Agriculture Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Plants, Animals, & You	Plants, Animals, & You	Plants, Animals, & You	Plants, Animals, & You
None	Food Science	Food Science	Food Science	Food Science
None		Leadership	Leadership	Leadership
None			Independent Study	Independent Study
None			Work Study	Work Study
None			Youth Apprenticeship	Youth Apprenticeship
None				Financial Literacy & Employability Skills (Req.)
1		Animal Science TC	Animal Science TC	Animal Science TC
1		Ecology TC	Ecology TC	Ecology TC

## 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 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.

**1 Science or Elective Credit**                      **C or better earns 3 transcribed credits @ FVTC**  
**Grades: 10-12**    **Prerequisite: 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 incorporated. Students may earn State Leadership certificate through this course.

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

**Independent Study** – Students develop their own projects based on interests or courses that are not currently offered. The curriculum will be coordinated with student input to provide enrichment opportunities.

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

**Ecology TC- 1 Laude Point** - This class examines the relationships and interrelationships of living organisms in their environment. Students study natural selection and speciation, environmental conditions, populations and competition, succession, energy flow and biogeochemical cycles, and the diversity of ecosystems.

**1 Science or Elective Credit**                      **C or better earns 2 transcribed credits @ FVTC**  
**Grades: 10-12**    **Prerequisite: C or better in Biology 1**

**Summer Independent Study** - Students develop their own projects based on interests. Students will complete a weekly log, a minimum of 75 hours of project time, and meet a minimum of four times with the instructor.

**.5 Credit - Pass/Fail** **Grades: 7-12** **Prerequisite: FFA Membership & Instructor Approval**



## **Financial Literacy/Employability Skills – REQUIRED**

**Employability** - 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 Covey's 7 Habits of Highly Effective Students, core abilities, employability applications, post-high school survival, etc.

**Financial Literacy** - 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**

**Veterinary Medical Terminology**- Develop an understanding of acceptable veterinary medical terminology for common clinically recognizable diseases, operations, systems, and procedures. Further, learners will distinguish common medical signs, abbreviations, and colloquial vocabulary. Medical terms and language is covered as it relates to the animal's body as a whole. This is through Erving (NTC)

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

# Art

## Course Descriptions

**Art 1- 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, printmaking and papermaking.

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**Art 1- 3D**– An introductory course in design, art history, art terminology and related concerns; activities may include (but not limited to) hand built pottery, wheel pottery, sculpture, jewelry (bead weaving), metals and glass (etching).

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**Art 2 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 and painting with various media (graphite, colored pencil, pen and ink, acrylic, watercolor), relief printmaking, and paper arts (bookbinding).

**0.5 Credit (1 Semester)**

**Prerequisite: Art I – 2D**

**Art 2- 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 hand-built pottery, wheel pottery, sculpture, jewelry, metals (lost wax cast silver rings), and glass (mosaics).

**0.5 Credit (1 Semester)**

**Prerequisite: Art I – 3D**

**Art 3 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 (intaglio), paper arts (quilling, manipulated paper).

**0.5 Credit (1 Semester)**

**Prerequisite: Art II – 2D**

**Art 3 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 hand-built pottery, potter’s wheel, art metals (fabrication), stained glass (copper foil technique), advanced jewelry.

**0.5 Credit (1 Semester)**

**Prerequisite: Art II – 3D**

**Art 4- 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, therefore - Students accepted into this course must have a strong previous background in previous years of art experiences. Students are accepted into Art IV by the Instructors' Permission. Students considering a career in art or design related fields 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.

**0.5 Credit (1 Semester)**

**Prerequisite: Instructor’s Permission**

**Art 4 - 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, therefore - Students accepted into this course must have a strong previous background in previous years of art experiences. Students are accepted into Art IV by the Instructors' Permission. Students considering a career in art or design related fields 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

**0.5 Credit (1 Semester)**

**Prerequisite: Instructor’s Permission**

**Photography and Graphic Design**– 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, developing 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. Students will learn graphic design and commercial art techniques through 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).

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**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.

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**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 may include the creation of a quilt square and a small garment by following a sewing pattern.

**0.5 Credit (1 Semester)**

**Prerequisite:(Preferred) Fiber Arts A**

**1 Laude Point Earned for Senior Art (3+ credits of art and 2 years on Art Team)**

***\*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.***

# Business

**Personal Finance-** Personal Finance contains units on the banking, checking, wages, savings, budgeting, credit buying, insurance, investments, home options and expenses, car expenses, and taxes. Students have the option at the beginning of the course for the option of three elective credits toward graduation at UWO through the CAPP Program. **This is through Erving.**

**0.5 HS Credit                      Grades: 11-12                      Prerequisite: None**  
**3 UWO Credits**

**Intro to Marketing-** This course will give you the foundations and functions of marketing. Students will then be able to create a marketing plan, create and distribute a product, set a price, promote the product, and then learn how to manage the risks and finances. **This is through Erving.**

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

**Accounting 1 & 2-** This high school course in accounting involves principles and methods of recording business transactions and the preparation of financial statements with emphasis on the records of a sole proprietorship, partnerships, and corporations. **This is through Erving.**

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

**Personal Brand Development-** Learn how personal branding allows you to differentiate yourself from the competition through appearance, personality, and marketing competency. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: College 101, 10-890-101**  
**2 NWTC credits**

**Logistics/Supply Chain-** Logistics supply chain, demand management and customer service, procurement and supply management, global logistics, manufacturing, inventory management, warehousing, transportation and third-party logistics. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: None**  
**3 NWTC credits**

**Social Media Marketing-** Cover the current state of social media and provide perspective on trends moving forward. Learn about the opportunities social media provides, what interactions mean for a business, and how communication has changed. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: None**  
**3NWTC credits**

# 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.

## Technology Course Descriptions

<b>Recommended Sequence of Available Technology Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Intro to Technology	Intro to Technology	Intro to Technology	Intro to Technology
None		Furniture & Cabinet Making	Furniture & Cabinet Making	Furniture & Cabinet Making
None		Metals 1	Metals 1	Metals 1
1			Shielded Metal Arc Welding (SMAW) Techniques	Shielded Metal Arc Welding (SMAW) Techniques
1			Gas Metal Arc Welding (GMAW) Techniques	Gas Metal Arc Welding (GMAW) Techniques

**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. The students will work safely and efficiently with both hand and power woodworking tools. Students will learn how to make something out of wood and follow the process from a tree in the forest to a finished product and all steps in between.

**1 Credit**

**Grades: 9-12**

**Prerequisite: None**



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

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

## Engineering Course Descriptions

<b>Recommended Sequence of Available Engineering Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Intro to Programming	Intro to Programming	Intro to Programming	Intro to Programming
None	Intro to DC Circuits	Intro to DC Circuits	Intro to DC Circuits	Intro to DC Circuits
None		Engineering	Engineering	Engineering
None		Programming 1	Programming 1	Programming 1
1		Robotics 1	Robotics 1	Robotics 1
1			Robotics 2	Robotics 2
1			Programming 2	Programming 2

**Intro to Programming** - This course is designed to introduce the student to the fundamentals of programming. Students will learn the basics of block coding and basic game programming. Students will also be introduced to the basics of robotic programming, website design, JavaScript, and Python.

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

**Intro to DC Circuits** - This course is designed to introduce the student to the fundamentals of direct current circuits. Students will learn the basics of series and parallel circuits, switches, resistors, circuit diagramming, and wiring. Students will also be introduced to Ohm's Law, multimeters, and soldering.

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

**Programming 1** - This is an introductory computer science course that takes a wide lens on computer science by covering topics such as problem-solving, programming, physical computing, user-centered design, and data while inspiring students as they build their own websites, apps, animations, games, and physical computing systems.

**1.0 Credit                      Grades: 10-12                      Prerequisite: Intro to Programming**

**Programming 2 - 1 Laude Point** This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in.

**1.0 Credit                      Grades: 10-12                      Prerequisite: Programming 1**

**Engineering** - This course is designed to introduce students to the various types of engineering through hands-on activities and challenges. Students will learn about the Engineering Design Process and will apply it to various engineering projects that include 3D printed models, laser-cut products, and automated solutions using Arduino and Raspberri Pi microcontrollers. Students will use higher-level problem-solving skills to devise solutions to real-world problems.

**1.0 Credit**                      **Grades: 10-12**                      **Prerequisite: Intro to Programming & Intro to DC Circuits**

**Robotics 1 - 1 Laude Point** Students will walk through the engineering design process and build 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: 10-12**                      **Prerequisite: None**

**Robotics 2 - 1 Laude Point** Students will continue to use the engineering design process to build mobile robots that could be used in real-world situations such as manufacturing. They will continue to learn key STEM principles and robotics concepts. Students will also work on troubleshooting electrical, mechanical, and circuitry problems in various computers, robots, and toys.

**1.0 Credit**                      **Grades: 11-12**                      **Prerequisite: Robotics 1**

**AP Computer Science-** College-board approved AP class that focuses on the fundamentals of computer science. Focus is on the many facets of computer science and how it relates to the world: Internet, App Design, Programming, Cybersecurity and Computing Systems. Prepares students who are new to computer science for the AP CS Principles exam. **This is through Erving**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: Algebra**

**Computer Programing 2 CIDS-** A continuation of fundamental computer concepts and programming. Java will be used to teach the basic concepts of program analysis, design and implementation. Topics include: methods, File IO, Arrays and their applications, Abstract Data Types, Classes, simple Java GUI application, Inheritance and composition. Students will need access to internet, email and the University's course management system Canvas. Designed to meet degree requirements for UWRF Computer Science and Information Systems majors. **This is through Erving (UWRF)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: CIDS 1**  
**3 UWRF credits**

**Principles of Information Security-** An introduction to the various technical and administrative aspects of information security and assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. **This is through Erving (NTC)**

**0.5 Credit**  
**2 NTC credits**

**Grades: 11-12**

**Prerequisite: None**

**IT Development & Design Fundamentals-** Introduces the field of IT software development and design. Learners will explore degree and career paths, IT tools and processes and begin to demonstrate professional communication. Learners will create or modify a simple computer program using an integrated development environment. **This is through Erving (NTC)**

**0.5 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Programming Concepts A.-** Introduces programming concepts and terminology using an object-oriented approach, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications that incorporate classes, fields, methods, and variables. Additional topics include: utilization of an Integrated Development Environment (IDE), value and reference types, object instantiation/lifetime/scope and mathematical/conditional/logical expressions. **This is through Erving (NTC)**

**0.5 Credit**  
**1 NTC credit**

**Grades: 11-12**

**Prerequisite: IT Development & Design Fundamentals**

**Programming Concepts B.-** Reinforces programming concepts and standards, building on the object-oriented approach introduced in Programming Concepts A, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications, applying the object-oriented basics of abstraction and encapsulation. Additional topics include: the utilization of a debugger, object multiplicity and constructors. **This is through Erving (NTC)**

**0.5 Credit**  
**1 NTC credit**

**Grades: 11-12**

**Prerequisite: Programming Concepts A.**

**Programming Concepts C.-** Emphasizes programming concepts and standards, building on the object-oriented approach of Programming Concepts B, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications, applying the object-oriented basics of abstraction and encapsulation, inheritance. **This is through Erving (NTC)**

**0.5 Credit**                      **Grades: 11-12**                      **Prerequisite: Programming Concepts B.**  
**1 NTC credit**

**Intro to IT-** This course provides an overview of Information Technology by comparing and contrasting the various fields within the broader IT industry. Students will be exposed to hardware, software, networking, programming, and analyst roles to understand how each plays an integral role in IT. **This is through Erving (NWTC)**

**0.5 Credit**                      **Grades: 11-12**                      **Prerequisite: None**  
**1 NWTC credit**

**Intro to Programming: Logic-** Techniques for developing computer programs to solve business problems; includes logic, structure, flowcharting, comparing, looping, variables, arrays, file processing, objects, methods, properties, events, data validation, testing procedures. **This is through Erving (NWTC)**

**0.5 Credit/**                      **Grades: 11-12**                      **Prerequisite: None**  
**1 NTC credit**

**WEB: Database Development-** Database uses, database terminology, analyzing information requirements, data models, database design phases, entity relationships, normalization processes, database management systems, database objects, development environments, creating tables, writing queries using SQL, testing. (This course will require students to work outside of class to complete lab work). **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**3 NWTC credit**

**Principles of Civil Engineering-** Provides fundamentals of Civil Engineering from concept to completion. Civil Engineering ethics, resume and portfolio creation, and Microsoft Word and Excel will also be introduced. **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**3 NWTC credit**

**Website Coding-** Write code for functionality and design of web page text, hyperlinks, images, forms, tables, and frames using (X)HTML, XML and CSS. Apply coding standards. Test browser function and user accessibility. (This course will require students to work outside of class to complete lab work). **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**3 NWTC credit**

**Digital Media Overview-** Media examples in audio, video, history of radio/tv broadcasting, concepts of videography, live video streaming, pre-production, scriptwriting and motion graphics. **This is through Erving (NWTC)**

**0.5 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**2 NWTC credit**

**Renewable Energy and Sustainability-** An overview of various renewable energy technologies and sustainable design practices and their current applications. Emphasis will be placed on policies, renewable energy production, green products and jobs. **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**4 NWTC credit**

# 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				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	High School Band	High School Band	High School Band	High School Band
None	High School Choir	High School Choir	High School Choir	High School Choir

## Course Descriptions

**High School Band**– 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 skills, 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 the instructor's discretion. Parent permission is required for drop/add requests to be considered.

**1 Credit**                      **Grades: 9-12**                      **Prerequisite: Middle School Band (or) Instructor's Approval**

**High School 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**

**General Music:** This is a class in which students explore various styles of music, musical time periods, music theory, musical instruments, the purposes of music, and music of other cultures through

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

**1 Laude Point Earned for 3+ years participation in Band and/or Choir and a 1<sup>st</sup> on a Class A Solo & Ensemble Piece**

## Other Electives

**Assisted Child Care Teacher-** This course is excellent for students who are interested in a career in which they are working with children (teacher, counseling, childcare, psychology, social work, community services). The course will emphasize the physical, emotional, social and intellectual development of children, birth to adolescent. Students will focus on the application of child development principles to the care of children while in group settings. Students are required to complete 10 hours of observation and/or instruction in a child-centered environment. Upon completion of the course, observation hours, 85% attendance, and a grade of C or better, the student will receive a DPI Skills Certificate which allows them to be employed as an Assistant Child Care Teacher. The DPI and the Wisconsin Technical College System have entered into an agreement whereby three elective credits may be awarded for successful completion of this course upon enrollment in a WTCS Early Childhood Program. **This is through Erving**

**0.5 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Written Communication-** Some topics explored in this course include: good and bad news messages, cover letters and resumes, and APA formatting. Come explore and apply professional workplace communication in this practical writing course. **This is through Erving (NTC)**

**1 HS Credit – 3 NTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Teaching-** Introduction to Teaching is designed for prospective teachers and other education professionals and serves as an introduction to both the field of education and to the Teacher Education program at UW River Falls. The course provides an introduction to interrelated aspects of education across three levels of analysis: Individual (teacher, child), Institution (school as a place to work and learn) System (schooling as reflective and transformative of society) Students learn through readings, class activities and discussions, assignments that utilize inquiry processes, and visits to educational settings. Several written assignments require students to reflect on their experiences and learning. **This is through Erving (UWRF)**

**1 HS Credit – 3 UWRF Credits**

**Grades: 11-12**

**Prerequisite: None**

**Exceptional Child-** This is a survey course examining the general aspects of students with special needs. Emphasis centers on the historical and legislative issues, definitions, eligibility, criteria and characteristics of exceptional individuals, models of delivery of services, individualized education programs and examples of accommodative techniques in the classroom and home. **This is through Erving**

**1 Credit**

**Grades: 11-12**

**Prerequisite: Intro to Teaching**



**Current Events in Criminal Justice-** Students will explore nine current issues related to law enforcement of today. Students will be given scenarios that speak to those issues and will be expected to research, reflect and eventually respond to those scenarios in a manner that effectively addresses the issues being explored. \*Students will need to have a high level of reading and writing skills for this course; research required. **This is through Erving (NTC)**

**1 HS Credit – 3 NTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**College 101-** Develops tools and strategies that support success in college. Focuses on study skills, college resources, goal setting, time management, and learning styles. Introduces concepts for self-assessing learning and completing an Exit Assessment that provides evidence that learning took place. Students should take this course prior to or during the first semester of their programs. **This is through Erving (NWTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Ethics and Theory and Application-** Basic understanding of theoretical foundations of ethical thought; analyze/compare relevant issues using diverse ethical perspectives; critically evaluate individual, social/professional standards of behavior--applying a systematic decision making process. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Customer Service-** Examine customer service culture, develop communication and listening skills, explore diversity in the workplace, develop skills for handling challenging customers, and explore the impact of technology on customer service and engagement. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Human Services-** Examine the evolution of the human services field. Distinguish the various types of human service agencies and occupations available in the field. Demonstrate the qualities of the field professionals. Complete 10 hours of community service at an agency of learner's choice outside of class time. Assess boundaries and ethical issues commonly found in the human services profession. Apply reflective practitioner techniques. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Law Enforcement-** In this course, learners will discover the history and evolution of policing and explore thought provoking issues that underscore the challenging and rewarding world of policing. Learners will examine the role of law enforcement in a democratic society, covering concepts such as law enforcement services; crime deterrence; discretion, and the expanded role of today's police officers. This course will also explore evolving law enforcement strategies and attitudes that build effective law enforcement and community relationships including the use of problem-oriented policing. Learners will also consider how professional law enforcement officers work in conjunction with the courts, corrections and other agencies to administer criminal justice in Wisconsin. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credit**

**Grades: 11-12**

**Prerequisite: None**

**Private Investigation Tactics-** Private investigators are used by law firms, corporations, insurance companies and other public and private entities. This course covers the basics of locating individuals using open sources of information, ethical considerations for investigators, constitutional law application and current investigative practices as preparation for success as a private investigator, corporate and private security or insurance claim investigator. Includes lessons on developing a business and marketing plan and preparing for the Wisconsin Private Detective license exam. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Understanding Substance Abuse-** Explore the bio-psych social dynamics of substance use. Examine treatment approaches, models, and screening criteria. Examine substances of abuse, history of SUDs, and their impact on the individual and society. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Career Planning-** Experiential learning introduction. Learn how personal branding allows candidates to differentiate themselves from the competition through appearance, personality, and marketing competency. Career portfolio introduced. **This is through Erving (NWTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: 10-890-101, College 101**

# Additional Offerings

## Early College Credit Program/Start College Now –

Wisconsin's Start College Now (formerly known as Youth Options) program allows public high school **students** 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 this 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. (.5 Laude Points per College Level course)**

**AP Classes**-- LWHS partners with Wisconsin Virtual School to offer additional online AP Courses. Students can take AP Classes and also the AP exam without taking the course itself. If a student earns a passing score of 3 or higher, students will earn college credit. Students will earn 1.5 Laude points for each AP course as well as high school credit. Students have until September 30 to add additional AP courses for the current school year.

Wisconsin Virtual School Classes--LWHS partners with Wisconsin Virtual School for high school courses not offered here. These courses are 20 weeks long and are fully online. Students are given time in their schedule to complete work. Courses must be applied for by Feb 28 for fall courses and September 30 for spring courses. All courses receive one semester high school credit. Up-to-date course offerings may be found at:

<https://www.wisconsinvirtualschool.org/courses/high-school-courses.cfm#d636900>

# Academic & Career Planning

ACP or Academic and Career Planning is intended to equip students and their families with the tools necessary to make more informed choices about postsecondary education, training, and careers for life after high school. It is part of Wisconsin Department of Public Instruction's overall vision for every student to graduate high school academically, socially, emotionally, and life ready. The following are components involved in academic and career planning. For more information, see <https://dpi.wi.gov/acp2>.

## 4 Year Course Plan

Course selections based on academic and career goals including highest education desired, career cluster(s) of interest, and career pathway(s) of interest.

## Career/Work Based Learning Experiences

Students in 9th and 10th grade are encouraged to work with their families and the school counselor to explore job shadow or interview opportunities in their areas of interest. Students in 11th and 12th grade may participate in Work Study, Youth Apprenticeship, or job shadowing.

## Virtual ACP Portfolio in Xello

Xello is a software that helps students in grades 6-12 create their very own unique roadmap for future success. This roadmap will enable students to discover their own personal pathway through self-knowledge, exploration, and planning. Built on a proven model for student success, Xello is aligned to Academic and Career Planning ACP. Students complete interactive lessons each year in their virtual portfolio.

<https://xello.mcoutput.com/1366560/Xello%20Scope%20and%20Sequence.pdf>

## Career Clusters & Pathways

There are 16 career clusters in the National Career Clusters Framework, representing more than 79 career pathways to help students navigate their way to greater success in college and career. They help students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college, and career.

The Little Wolf High School Course Catalog along with the career clusters and pathways are ways for students to group their required and elective courses into a coherent sequence in preparation for college and careers. By connecting education to future goals, students are motivated to work harder and enroll in more rigorous courses and meet their future goals. A list of clusters, pathways, and LWHS offered courses follows this section.

[https://cte.careertech.org/sites/default/files/CareerClustersPathways\\_0.pdf](https://cte.careertech.org/sites/default/files/CareerClustersPathways_0.pdf)

## **Extracurricular Activities**

Students can participate in clubs & athletics

## **Assessment Results**

Students take WI Forward Exams, ACT Aspire, PreACT, ACT Plus Writing, & AP Exams

## **Financial Plan**

Students complete Employability Skills/Financial Literacy course in their senior year.

## **Potential Post-Secondary Options**

Technical School, Associate Degree or Certificate, 4-Year College, Trade School, Apprenticeship, Work, Military

This career cluster prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical, and educational services.

### The Seven Pathways

#### Food Products & Processing Systems

Food & Drug Inspector  
 Food & Meat Processor  
 Agricultural Engineer  
 Agricultural Educator  
 Bioengineer  
 Microbiologist  
 Dietician  
 Quality Control Specialist  
 Food Scientist

#### Power, Structural, & Technical Systems

Database Administrator  
 Machine Operator  
 Welder  
 Agricultural Engineer  
 Wastewater Treatment  
 Plant Operator  
 Machinist  
 Farm Equipment  
 Technician

#### Plant Systems

Plant Breeder & Geneticist  
 Soil & Water Specialist  
 Certified Crop Advisor  
 Botanist  
 Horticulturist  
 Education & Extension Specialist  
 Golf Course Superintendent  
 Green House Manager  
 Forest Genetics

#### Natural Resources Systems

Fish & Game Official  
 Geologist  
 Ecologist  
 Logger  
 Park Manager  
 Wildlife Manager  
 Agronomist

#### Animal Systems

Animal Caretaker/Trainer  
 Animal Scientist  
 Equine Manager  
 Dairy Farmer  
 USDA Inspector  
 Veterinarian  
 Veterinary Assistant  
 Animal Nutritionist

#### Environmental Service Systems

Soil Conservationist  
 Chemical Engineer  
 Recycler  
 Hazardous Materials Handler  
 Water Quality Manager  
 Toxicologist  
 Conservation Warden  
 Wildlife Biologist

#### Agribusiness Systems

Dairy Herd Supervisor  
 Farm Manager  
 Bank Loan Office  
 Agricultural Lender  
 Feed Supply Store Manager  
 Agricultural Product Buyer  
 Agricultural Product Distributor

LWHS Courses for Supporting Knowledge in Agriculture, Food, & Natural Resource Careers			
	<b>Agriculture &amp; Science Courses</b>		<b>Technology &amp; Engineering Courses</b>
	Plants, Animals, & You		Intro to Technology
	Food Science		Metals 1
	Leadership		GMAW & SMAW
	Animal Science TC		Furniture & Cabinetry
	Ecology TC		Intro to DC Circuits
	Biology & Biology 2		Engineering
	Chemistry		Robotics
Additional Courses through WVS, FVTC, & ERVING			

## Architecture and Construction

This diverse career cluster prepares learners for careers in designing, planning, managing, building, and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations, and repairs.

### The Three Pathways

#### Construction

Carpenter  
 Construction Engineer  
 Electrician  
 Mason  
 Contractor  
 Drywall Installer  
 Plumber  
 Roofer  
 Safety Director  
 Tile & Marble Setter

#### Design/Pre-Construction

Architect  
 Civil Engineer  
 Drafter  
 Electrical Engineer  
 Industrial Engineer  
 Safety Director  
 Structural Engineer  
 Landscape Architect  
 Interior Designer  
 Fire Protection & Prevention Engineer  
 Surveying & Mapping Technician

#### Maintenance & Operations

Air Conditioning Technician  
 Construction Inspector  
 Equipment & Material Manager  
 Cost Estimator  
 Subcontractor  
 Wastewater Maintenance Technician  
 Hazardous Material Remover  
 Demolition  
 Service Contractor & Field Supervisor

#### LWHS Courses for Supporting Knowledge in Architecture & Construction

##### Agriculture & Science Courses

Plants, Animals, and You  
 Ecology TC  
 Leadership  
 Art Courses  
 Intro to Art  
 Art 3D courses (II-IV)

##### Technology & Engineering Courses

Intro to Technology  
 Metals 1  
 GMAW & SMAW  
 Furniture & Cabinetry  
 Intro to DC Circuits  
 Engineering  
 Robotics

Additional Courses through WVU, FVTC, & ERVING

## Arts, A/V Technology, and Communications Courses

This career cluster prepares learners for designing, producing, exhibiting, performing, writing, or publishing multimedia content. Students will apply artistic talent to practical problems and learn visual arts principles that prepare students with skills and techniques to work in any number of creative design and entertainment fields.

### The Six Pathways

#### Audio & Video Technology & Film

Audio Systems Technician  
 A/V Designer & Engineer  
 Videographer: Special Effects & Animation  
 Video Systems Technician  
 Technical Computer Support Technician  
 Animator  
 Cinematographer  
 Medical & Scientific Illustrator

#### Visual Arts

Painter  
 Sculptor  
 Print Maker  
 Illustrator  
 Cartoonist  
 Fashion Artist  
 Animator  
 Art Director  
 Graphic Designer  
 Commercial Photographer

#### Journalism & Broadcasting

Editor  
 Journalist  
 Producer  
 Publisher  
 Radio & Television Announcer  
 Writer  
 Reporter  
 Design Director  
 Control Room Technician

#### Telecommunications

Office Installer  
 Network Technician  
 Telecommunication

#### Performing Arts

Actor  
 Composer  
 Director  
 Makeup Artist  
 Lighting Director  
 Musician  
 Choreographer  
 Playwright  
 Scenic Designer

#### Printing Technology

Desktop Publishing  
 Job Printer  
 Platemaker  
 Press Operator

### LWHS Courses for Supporting Knowledge in Arts, A/V Technology, & Communications

	Fine Arts Courses		Technology Courses
	Intro to Art		Intro to Technology
	Art II 2D & 3D		Intro to DC Circuits/Intro to Programming
	Art III 2D & 3D		Engineering
	Art IV		Programming
	Photography & Graphic Design		Digital Information Technology (WVS)
	Band		Fashion Design (WVS)
	Choir		Interior Design (WVS)
Additional Courses through WVS, FVTC & ERVING			



## Business Management and Administration

The Business Management & Administration Cluster prepares learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service, and communication.

### The Six Pathways

#### Business Financial Management & Accounting

Accountant  
Adjuster  
Auditor  
Bookkeeper  
Billing Specialist  
Price Analyst  
Treasurer  
Accounts Payable Clerk  
Billing Clerk

#### Human Resources

Human Resources Manager  
Compensation & Benefits Manager  
Training & Development Specialist  
Labor & Personnel Specialist  
OSHA/ADA Convention Planner  
Personnel Recruiter

#### Marketing

Marketing Manager  
Store Manager  
Customer Service Supervisor  
Retail Salesperson  
Wholesale or Retail Buyer  
Public Relations Specialist  
Advertising Agent  
Telemarketer

#### Management

Entrepreneur  
General Manager  
Public Relations Manager  
Risk Manager  
Advertising Account Executive  
Health Care Administrator  
Small Business Owner

#### Business Analysis

Budget Analyst  
Compensation Analyst  
Cost Analyst  
Database Business Analyst  
Investment Analyst  
Marketing Analyst

#### Administration & Information Support

Administrative Assistant  
Executive Assistant  
Office Manager  
Desktop Publisher  
Customer Service Assistant  
Data Entry Specialist  
Receptionist

#### LWHS Courses for Supporting Knowledge in Business Management & Administration

##### Business & Information Technology Classes

Computer Science Principles (WVS)

Digital Information Technology (WVS)

Entrepreneurship (WVS)

Photography & Graphic Design

Web Design (WVS)

Accounting (FVTC)

Additional Courses through WVS, FVTC, & ERVING

## Education and Training

This diverse Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services. Millions of learners each year train for careers in education and training in a variety of settings that offer academic instruction, career technical instruction, and other education and training services.

### The Three Pathways

#### Teaching & Training

Preschool or Kindergarten Teacher, Aide  
 Elementary Teacher, Aide  
 Secondary Teacher, Aide  
 Special Education Teacher, Aide  
 College/University Lecturer/Professor  
 Management Development Trainer  
 Human Resource Trainer  
 Coach  
 Child Care Director

#### Professional Support Services

Psychologist-Clinical, Developmental, Social  
 Social Worker  
 Parent Educator  
 Counselor  
 Speech-Language Pathologist  
 Audiologist

#### Admin & Admin Support

Superintendent  
 Principal  
 Director of Training  
 Librarian  
 Instructional Coordinator  
 Educational Researcher  
 College President or Dean  
 Curriculum Developer  
 Instructional Media Designer

<b>LWHS Courses for Supporting Knowledge in Education &amp; Training</b>			
	<b>Social Studies Courses</b>		<b>Other Elective Courses</b>
	Sociology		Sports Officiating
	AP Psychology		Intro to Teaching (ERVING & UWRF)
	Teacher Aide		Exception Child (ERVING & UWRF)
	Child Development (WVS)		
	Early Childhood Education (WVS)		
	Real-World Parenting (WVS)		
Additional Courses through WVS, FVTC, & ERVING			

## Finance

The Finance Cluster prepares learners for careers in investment planning, banking, insurance, and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service, and good number sense.

### The Four Pathways

#### Financial & Investment Planning

Personal Financial Advisor  
 Tax Preparer  
 Sales Agent for Securities & Commodities  
 Investment Advisors  
 Brokerage Clerk  
 Development Officer

#### Business Financial Management

Accountant  
 Financial Analyst  
 Controller  
 Chief Revenue Agent  
 Auditor  
 Economist  
 Tax Examiner  
 Collector  
 Revenue Agent

#### Banking & Related Services

Loan Officer  
 Bill & Account Collector  
 Teller  
 Loan Processor  
 Real Estate Appraiser  
 Internal Auditor  
 Title Researcher & Examiner  
 Debt Counselor

#### Insurance Services

Claims Agent  
 Examiner  
 Claims Clerk  
 Insurance Appraiser  
 Underwriter  
 Actuary  
 Sales Agent  
 Customer Service Agent  
 Processing Clerk

#### LWHS Courses for Supporting Knowledge in Finance

Business & Information Technology Courses	Social Studies Courses
Entrepreneurship (WVS)	Economics
Computer Science Principles (WVS)	AP Psychology
Digital Information Technology (WVS)	
International Business (WVS)	
Finance (WVS)	<b>Math Courses</b>
Accounting (ERVING)	AP Calculus
Personal Finance (ERVING-UWO)	Statistics
Additional Courses through WVS, FVTC. & ERVING	

## Government and Public Administration

Government affects Americans in countless ways. In a democratic society, government is the means of expressing the public will. There are some activities that are unique to government. The federal government defends us from foreign aggression; represents American interests abroad; deliberates, passes, and enforces laws; and administers different programs. State and local governments pass laws or ordinances and provide vital services to constituents. There are many opportunities in government in every career area. This cluster focuses on careers that are unique in government and not contained in another Cluster.

### The Seven Pathways

#### Governance

Legislative Assistant  
 Congressional Aide  
 Lobbyist  
 County Commissioner  
 Legislator  
 Mayor  
 Governor  
 Lieutenant Governor  
 Postmaster

#### Foreign Service

Foreign Service Officer  
 Diplomatic Officer  
 Consular Officer  
 Ambassador  
 Peace Corps  
 Translator

#### Regulation

Investigator/Examiner  
 Code Inspector  
 Bank Examiner  
 Election Supervisor  
 Child Support Officer  
 Cargo Inspector  
 Border Inspector  
 Aviation Safety Officer

#### Public Management & Administration

County Administrator or Clerk  
 City or County Clerk  
 City Manager  
 Purchasing Manager  
 Political Scientist

#### National Security

Combat Control Officer  
 Missile & Space Systems Officer  
 Submarine Officer  
 Infantry Officer & Specialist  
 Air Defense Artillery Officer  
 Military Intelligence Officer  
 Cryptographer  
 Intelligence Analyst

#### Revenue & Taxation

Tax Examiner  
 Tax Clerk  
 Revenue Agent  
 Internal Revenue Investigator  
 Auditor  
 Lawyer

#### Planning

Planner  
 Census Clerk  
 Federal Aid Coordinator  
 Economic Development Coordinator  
 Chief of Vital Statistics

### LWHS Courses for Supporting Knowledge in Government & Public Administration

#### Social Studies Courses

Economics

Sociology

US History

Government

AP Psychology

World History

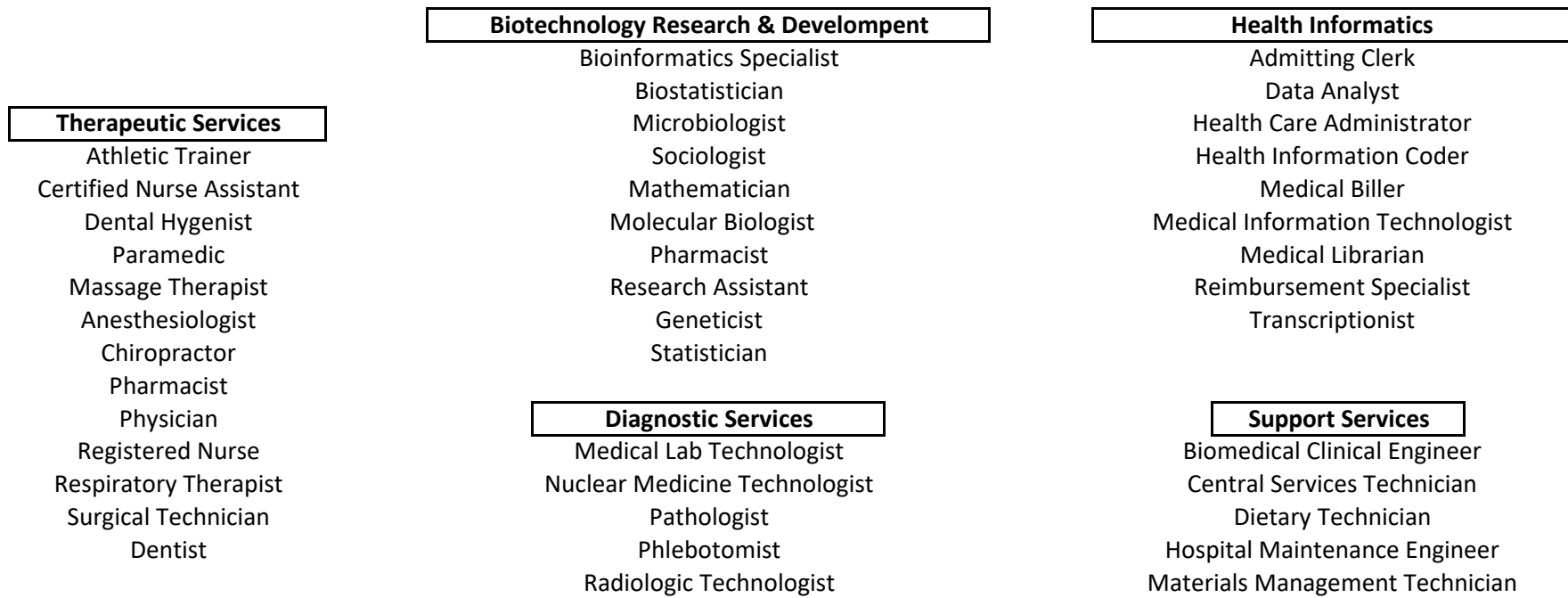
World Geography (WVS)

Additional Courses through WVS, FVTC, & ERVING

## Health Science

The Health Science Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treating injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, sports arenas, space centers, or within the community.

**The Five Pathways**



<b>LWHS Courses for Supporting Knowledge in Health Science</b>	
<b>Science Courses</b>	<b>Social Studies Courses</b>
Biology & Biology II	Economics
Chemistry & AP Chemistry	AP Psychology
Physical Science	Sociology
Physics	<b>Math Courses</b>
Human Biology	AP Calculus
AP Biology (WVS)	Statistics
Additional Courses through WVS, FVTC, & ERVING	

## Hospitality and Tourism

The Hospitality & Tourism Cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreational events and travel-related services. Hospitality operations are located in communities throughout the world.

### The Four Pathways

#### Restaurant & Food/Beverage Services

Food & Beverage Manager  
 Catering & Banquets Manager  
 Restaurant Owner  
 Executive Chef  
 Cook  
 Bartender & Server  
 Banquet Setup Attendant

#### Lodging

Front Office Manager  
 Executive Housekeeper  
 Director of Sales & Marketing  
 Director of Operations  
 Front Desk Supervisor  
 Sales Professional

#### Travel & Tourism

Event Planner  
 Convention Services Manager  
 Interpreter  
 Heritage Tourism Developer  
 Tour Operator/Guide/Agent  
 Tourism Marketing Specialist

#### Recreation, Amusements, and Attractions

Club Manager  
 Membership Director  
 Parks Director  
 Resort Instructor  
 Promotional Developer  
 Park Ranger  
 Zookeeper  
 Recreation Director

LWHS Courses for Supporting Knowledge in Hospitality & Tourism	
Business & Information Technology Courses	Agriculture Courses
Entrepreneurship (WVS)	Plants, Animals, and You
Computer Science Principles (TVS)	Food Science
Web Design (WVS)	Leadership
Marketing (WVS)	
Additional Courses through WVS, FVTC, & ERVING	

## Human Services

The Human Services Career Cluster prepares learners for employment in career pathways that relate to serving families and human needs.

### The Five Pathways

#### Consumer Services

Consumer Affairs Officer  
 Financial Counselor  
 Consumer Research Department Representative  
 Investment Advisor  
 Employee Benefits Representative  
 Market Researcher

#### Early Childhood Development & Services

Director, Childcare Facility  
 Childcare Assistant/Worker  
 Parent Educator  
 Nanny  
 Preschool Teacher/Assistant

#### Family & Community Services

Community Service Director  
 Volunteer Coordinator  
 Director, Religious Activities/Education Programs  
 Emergency Relief Worker  
 Grief Counselor  
 Social Services Worker

#### Counseling & Mental Health Services

Career Counselor  
 Clinical/Counseling Psychologist  
 Marriage, Child, & Family Counselor  
 Mental Health Counselor  
 Rehabilitation Counselor  
 School Counselor  
 Substance Abuse Counselor

#### Personal Care Services

Cosmetologist  
 Funeral Attendant/Director  
 Nail Technician  
 Personal Trainer  
 Skin Care Specialist

### LWHS Courses for Supporting Knowledge in Human Services

#### Agriculture & Science Courses

Leadership  
 Biology  
 Biology II  
 Human Biology

#### Art Courses

Intro to Art  
 Art 2D & 3D

#### Social Studies Courses

Sociology  
 AP Psychology  
 Teacher Assistant  
 Developmental Psychology (FVTC)  
 Real-World Parenting (WVS)

Finance

Additional Courses through WVS, FVTC, & ERVING

## Information Technology

Building Linkages in Information Technology Framework, learners will gain skills in the design, development, support, and management of hardware, software, multimedia and systems integration services.

### The Four Pathways

#### Network Systems

Network Administrator  
 Network Technician  
 Telecommunications Network Technician  
 Data Communications Analyst  
 Security Administrator

#### Information Support Services

Database Administrator  
 Enterprise Systems Engineer  
 Help Desk Specialist  
 Technical Support Engineer  
 Technical Writer  
 Instructional Designer  
 Application Integrator

#### Programming & Software Development

Software Applications Architect  
 Applications Engineer  
 Computer Programmer  
 Game Programmer  
 Operating Systems Design/Engineer

#### Interactive Media

Web Designer  
 Webmaster  
 3D Animator  
 Virtual Reality Specialist  
 Multimedia Producer  
 Graphic Artist

LWHS Courses for Supporting Knowledge in Information Technology	
Technology & Engineering Courses	Social Studies Courses
Intro to DC Circuits/Intro to Programming	Sociology
Engineering	AP Psychology
Programming	
Robotics	Computer/Business Classes
Art Courses	Computer Science Principles (WVS)
Intro to Art	Digital Information Technology (WVS)
Art 2D & 3D	Web Design & Game Design (WVS)
Photography & Graphic Design	AP Computer Science (ERVING)
Additional Courses through WVS, FVTC, & ERVING	



## Law, Public Safety, Corrections, and Security

The Law, Public Safety, Corrections, & Security Career Cluster helps prepare learners for careers in planning, providing, and managing legal, public safety, protective services, and homeland security, including professional and technical support services.

### The Five Pathways

#### Security & Protective Services

Security Director  
 Security Systems Designer  
 Information Systems Security Specialist  
 Computer Forensics Specialist  
 Loss Prevention Specialist  
 Security Systems Technician  
 Security Officer

#### Legal Services

Judge  
 Attorney  
 Legal Assistant  
 Law Clerk  
 Case Management Specialist

#### Correction Services

Warden/Jail Administrator  
 Public Information Officer  
 Case Manager  
 Correctional Officer  
 Probation/Parole Officer  
 Youth Services Worker

#### Law Enforcement Services

Criminal Investigator  
 Immigrations & Customs Inspector  
 Federal Marshall  
 Police Detective  
 Police Officer/Sheriff Deputy  
 Police/Fire/Ambulance Dispatcher  
 Evidence Technician

#### Emergency & Fire Management Services

Emergency Mgmt & Response Coordinator  
 Emergency Medical Technician  
 Fire Fighter  
 Hazardous Materials Responder  
 Training Officer

### LWHS Courses for Supporting Knowledge in Law, Public Safety, Corrections, & Security

Science Courses	Social Studies Courses
Biology & Biology II	Sociology
Chemistry	AP Psychology
Human Biology	Developmental Psychology
	Careers in Criminal Justice (WVS)
Agriculture Course	Criminology (WVS)
Leadership	Forensic Science (WVS)
Additional Courses through WVS, FVTC, & ERVING	

# Manufacturing

This diverse Career Cluster prepares learners for careers in planning, managing, and performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

## The Six Pathways

### Manufacturing Production Process & Development

Design Engineer  
Industrial Engineer  
Labor Relations Manager  
Manufacturing Engineer  
Precision Inspector, Tester, & Grader  
Process Improvement Technician  
Production Manager

### Production

Assemblers  
Automated Manufacturing Technician  
Calibration Technician  
Electromechanical Equipment Assemblers/Operators  
Tool & Die Maker

### Maintenance, Installation & Repair

Biomedical Equipment Technician  
Communication System Installer/Repair  
Instrument Control Technician  
Laser System Technician  
Security System Installer/Repair

### Quality Assurance

Calibration Technician  
Inspector  
Lab Technician  
Process Control Technician  
Quality Control Technician  
Quality Engineer

### Logistics & Inventory Control

Dispatcher  
Freight, Stock & Material Mover  
Industrial Truck & Tractor Operator  
Logistical Engineer  
Material Handler  
Process Improvement Technician  
Traffic Manager

### Health, Safety, & Environmental Assurance

Environmental Engineer  
Health & Safety Coordinator  
Safety Engineer  
Safety Technician

### LWHS Courses for Supporting Knowledge in Manufacturing

Technology & Engineering Courses	Social Studies Courses
Intro to Technology	Sociology
Metals I	AP Psychology
Furniture & Cabinetry	<b>Business &amp; Information Technology Courses</b>
GMAW/SMAW	Computer Science Principles (WVS)
Intro to DC Circuits/Intro to Programming	Biotechnology (WVS)
Engineering	Manufacturing: Production Design & Innovation
Robotics	
Additional Courses through WVS, FVTC, & ERVING	

## Marketing, Sales, and Service

The Marketing, Sales, & Service Career Cluster prepares learners for careers in planning, managing, and performing marketing activities to reach organizational objectives.

### The Seven Pathways

#### Management & Entrepreneurship

Chief Executive Officer  
 Entrepreneur  
 Independent Distributor  
 Small Business Owner

#### Professional Sales & Marketing

Account Executive  
 Broker  
 Regional Sales Manager  
 Sales Executive  
 Technical Sales Specialist

#### Buying & Merchandising

Clerk  
 Merchandise Buyer  
 Merchandising Manager  
 Operations Manager  
 Retail Marketing Coordinator  
 Sales Associate  
 Store Manager

#### Marketing Communication & Promotion

Advertising Manager  
 Art/Graphics Director  
 Creative Director  
 Interactive Media Specialist  
 Public Relations Manager  
 Sales Representative

#### Marketing Information & Research

Brand Manager  
 Database Manager  
 Director of Market Development  
 Product Planner  
 Research Associate  
 Strategic Planner

#### Distribution & Logistics

Distribution Coordinator  
 Inventory Manager/Analyst  
 Logistics Analyst/Engineer  
 Materials Manager  
 Shipping/Receiving Administrator  
 Shipping/Receiving Clerk  
 Warehouse Manager

#### E-Marketing

Copywriter/Designer  
 Customer Support Specialist  
 E-Commerce Director  
 E-Merchandising Manager  
 Fulfillment Manager  
 Online Market Researcher

<b>LWHS Courses for Supporting Knowledge in Agriculture, Food, &amp; Natural Resource Careers</b>	
<b>Agriculture Courses</b>	<b>Social Studies Courses</b>
Leadership	Sociology
<b>Art Courses</b>	AP Psychology
Intro to Art	<b>Business &amp; Information Technology Courses</b>
Art 2D & 3D	Entrepreneurship (WVS)
Photography & Graphic Design	Advertising & Sales (WVS)
	Media & Communications (WVS)
Additional Courses through WVS, FVTC, & ERVING	

## Science, Technology, Engineering, and Mathematics

A career in Science, Technology, Engineering, or Mathematics is exciting, challenging, and ever-changing. Learners who pursue one of these career fields will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

### The Two Pathways

#### Science & Mathematics

Biologist  
 Chemist  
 Geneticist  
 Physicist  
 Mathematician  
 Statistician  
 Research Technician  
 Science Teacher  
 Lab Technician

#### Engineering & Technology

Aeronautical Engineer  
 Architectural Engineer  
 Biotechnology Engineer  
 Chemical Engineer  
 Civil Engineer  
 Construction Engineer  
 Industrial Engineer  
 Mechanical Engineer  
 Materials Lab & Supply Technician  
 Quality Technician

<b>LWHS Courses for Supporting Knowledge in Science, Technology, Engineering, &amp; Mathematics</b>			
<b>Math Courses</b>		<b>Science Courses</b>	<b>Technology/Engineering Courses</b>
Algebra		Biology & Biology II	Intro to Technology
Geometry		Physical Science	Metals 1
Advanced Algebra		Chemistry	Furniture & Cabinetry
Precalculus		Ecology TC	Intro to DC Circuits/Programing
AP Calculus		Physics	Engineering
Statistics		AP Chemistry	Programming
		AP Biology	Robotics
			AP Computer Science
Additional Courses through WVS, FVTC, ERVING			

## Transportation, Distribution, and Logistics

The Transportation, Distribution, & Logistics Career Cluster exposes learners to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

### The Six Pathways

#### Transportation Operations

Transportation Managers  
 Pilots  
 Locomotive Engineers  
 Flight Engineers & Attendants  
 Truck & Bus Drivers  
 Air Traffic Controllers  
 Ship & Boat Captains  
 Aircraft Cargo Handling Supervisors

#### Logistics Planning & Management

Logistician  
 Logistics Manager  
 Logistics Engineer  
 International Logistic Specialist

#### Facility & Mobile Equipment Maintenance

Industrial Equipment Mechanic  
 Electrician & Technician  
 Facility Maintenance Manager/Engineer  
 Mobile Equipment Maintenance Technician  
 Diesel Engine Specialist

#### Warehousing & Distribution Center Operations

Storage & Distribution Manager  
 Warehouse Manager  
 Industrial & Packaging Engineer  
 Shipping & Receiving Supervisor  
 Production, Planning, & Expediting Clerk  
 Freight Material Mover & Supervisor

#### Sales & Service

Reservation & Travel Agent  
 Cargo & Freight Agent  
 Customer Service Manager & Representative  
 Customer Order Supervisor  
 Billing Supervisor

#### Transportation Systems/Infrastructure Planning, Management & Regulation

Traffic Control  
 Urban & Regional Planner  
 Vehicle & System Inspector  
 Federal, State, & Local Transportation Agency  
 Manager

#### LWHS Courses for Supporting Knowledge in Transportation, Distribution & Logistics

Technology & Engineering Courses	Social Studies Courses
Intro to Technology	Economics
Furniture & Cabinetry	AP Psychology
Metals 1	Sociology
GMAW/SMAW	Manufacturing (WVS)
Intro to DC Circuits/Intro to Programming	International Business & Commerce (WVS)
Engineering	Computer Science Principles (WVS)
Robotics	
Additional Courses through WVS, FVTC, ERVING	



**Students choosing to excel; realizing their strengths.**

To: Board of Education  
From: Danni Brauer  
Date: 1/3/23  
Re: Financial Literacy at MES

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At the elementary level, financial literacy is embedded in the current curriculum for social studies and mathematics. Financial literacy standards have not been identified in the current curriculum maps, though.

Teachers will work in their PLCs in February to identify where the standards are being taught and ways financial literacy instruction can be improved.

1. Teachers will take time to review the financial literacy standards to be sure that they understand the expectations for each grade band (K-2, 3-5).
2. Teachers will begin with Social Studies curriculum maps to identify where standards are addressed. Teachers will add financial literacy standards to these units.
3. Teachers will review mathematics curriculum maps to find links to financial literacy standards and add standards as appropriate.
4. Teachers will get together in grade bands (K-2, 3-5) to identify standards that are not, yet, covered and agree upon the grade level and subject where they would fit the best.
5. Curriculum maps will be edited and sent to the Curriculum Committee for review.





## School District of Manawa

Students Choosing to Excel, Realizing Their Strengths

To: Board of Education  
From: Dr. Abe El Manssouri  
Date: January 3, 2023  
Re: Grades 6-12 Financial Literacy

The purpose of this memo is to recommend options for addressing Financial Literacy for students in grades 6-12. After ongoing conversations with Mrs. Cordes about this subject, the option that makes the most sense is option A. The option allows for the various advantages outlined in the table below, as well as the possibility of exploring financial literacy concepts in grades 6 through 12.

*The following document is the Wisconsin K-12 Personal Financial Literacy Standards:*

<https://dpi.wi.gov/sites/default/files/imce/standards/New%20pdfs/PersonalFinancialLiteracyStandards2020.pdf>

The 2017 Wisconsin Act 94 requires school districts to adopt academic standards for financial literacy and incorporate instruction into the curriculum in grades kindergarten through 12. The Wisconsin Standards for Personal Financial Literacy are divided into six strands: • Financial Mindset • Education and Employment • Money Management • Saving and Investing • Credit and Debt • Risk Management and Insurance These six strands combine to support the learning of personal financial literacy as students advance to the workplace or post-secondary educational opportunities. The personal financial literacy skills and knowledge learned in Wisconsin schools support all students in becoming college and career ready. Wisconsin communities are made stronger through these positive results for students.

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### Manawa Elementary

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	Option A	Option B	Option C
Description	Financial Literacy/Employability Skills <u>course during senior year.</u> Infusion of financial literacy concepts in all other grades.	Financial Literacy offered <u>at 10th-grade</u> Infusion of financial literacy concepts in all other grades.	Add a <u>middle school course</u> that teaches financial literacy, test-taking skills, and goal setting (Sandy took a similar class to start college that was very helpful), <u>plus keep it as a senior semester class.</u> Infusion of financial literacy concepts in all other grades.
Plan	<ul style="list-style-type: none"> <li>➤ Semester course is offered in the Senior year, with the possibility for juniors to take the class in their academic planning allows them to.</li> <li>➤ Additional financial literacy concepts will be taught via lessons pushed through Xello during homeroom in all middle and high school grades. (Previously, have been coordinated through the guidance counselor in grades 6 -11).</li> </ul>	<ul style="list-style-type: none"> <li>➤ Current: Seniors take in 2022-23</li> <li>➤ Next year: Juniors and Seniors take in 2023-24</li> <li>➤ Following year: Sophomores and Juniors take in 2024-25</li> <li>➤ Years after: Sophomore status course</li> </ul> <p>OR if transitioning in one year, then sophomores, juniors, and seniors would need to take the class next year.</p>	<ul style="list-style-type: none"> <li>➤ Add a middle school course to the rotation so students have intro material for financial literacy (debit cards, savings, balancing transactions, etc.). We could also help students learn test-taking strategies, conflict resolution, problem-solving, etc.</li> </ul>

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<p>Advantages</p>	<ul style="list-style-type: none"> <li>➤ Juniors who are ahead academically can still take the course in junior year.</li> <li>➤ Will not have a major impact on other classes and the schedule.</li> <li>➤ Course can continue to have more advanced financial and employability skill components to help students transition to their next steps after graduation.</li> <li>➤ No need to change to semester offerings for 10th and 11th grade.</li> <li>➤ Sandy will not need to offer less of her course offerings (one or two-year impact in the next proposal).</li> <li>➤ Not changing it helps with Youth Apprenticeship requirements.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Structured lessons at an earlier age to introduce students to financial literacy prior to or early on in employment.</li> <li>➤ A 2-year plan allows the instructor to only lose one additional agriculture class (for two years) in the transition.</li> <li>➤ Lessons could still be embedded into each grade level.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Earlier structured learning as students are more likely to enter the workforce.</li> <li>➤ Focused improvement on skills that students are lacking could also help with behavior and test-taking.</li> <li>➤ Ability to dig deeper and reinforce learning as seniors.</li> <li>➤ We have an eight-period day, and this may be a valuable addition.</li> </ul>
<p>Challenges</p>	<ul style="list-style-type: none"> <li>➤ Creating PD for teachers K -11 to infuse financial literacy into course contents. Solution: Sandy Cordes is willing to curate this information and assist peers with resources. We could roll out similar to ISTE</li> </ul>	<ul style="list-style-type: none"> <li>➤ Younger students may lack the maturity or experience, or interest to tackle some of the course topics (e.g., how to buy a house, investing, resumes, etc.) as compared to embedding smaller</li> </ul>	<ul style="list-style-type: none"> <li>➤ The schedule would be impacted by an additional course being offered. We do not know who the instructor would be.</li> <li>➤ New curriculum would need to be written. Solution: Sandy is willing to help, and</li> </ul>

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	<p>standards. Solution: we intend to do a staff survey to see where financial literacy/money management is already being taught.</p> <ul style="list-style-type: none"> <li>➤ Required for graduation, so vital we keep a close watch on at-risk seniors or offer as a summer school class.</li> </ul>	<p>units into each grade. Solution: change the curriculum to meet students where they are at. The only other course all seniors take is English, so that may change that curriculum also.</p> <ul style="list-style-type: none"> <li>➤ Youth Apprenticeship and other scheduling challenges, including Laude points.</li> </ul>	<p>there are a lot of available resources for this course that would be free or low-cost.</p>
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# Course of Study Guide

2023-2024

## Little Wolf High School



515 E. Fourth Street  
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(920) 596-5800

“Creating solid foundations for lifelong success.”

Approved by the School District of Manawa Board of Education 01/17/2022

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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**

### **NONDISCRIMINATION AND ACCESS TO EQUAL EDUCATIONAL OPPORTUNITY**

The Board is committed to providing an equal educational opportunity for all students in the District.

The Board does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes") in any of its student program and activities.

This policy is intended to support and promote nondiscriminatory practices in all District and school activities.

School District of Manawa, Policy 2260, updated September 2021

# Wolf Pride



“Creating solid foundations for lifelong success.”

## ~Tips for School Success~

- ❖ Arrive to class on time with appropriate materials (pen, pencil, notebook, textbooks, folder, Chromebook, 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, counselors, 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

A Little Wolf High School diploma shall be granted upon successful completion of a total of 24 credits for the Class of 2023 and **25 credits for the Class of 2024** and beyond in grades 9 through 12 to include:

- 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/Employability Skills 0.5 credits
- Elective Courses 8.5 credits

***Electives for 2024 and beyond 9.5 credits***

- In order to earn a high school diploma, a student must successfully complete a civics assessment in accordance with State statute.

# Grade Level Requirements

**Students in the 2023-2024 school year** are required to have earned a minimum of:

- 6 credits to be considered a sophomore
- 12.5 credits to be considered a junior
- 19 credits to be considered a senior
- 25 credits to graduate

**High school graduation requirements may be different from the entrance requirements for specific colleges and universities. The requirements listed above are the 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.**



# 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 transcript note will be provided to the colleges explaining our 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. Students have until September 30 to register for additional AP courses offered through Wisconsin Virtual School in order to have the maximum time allotted to complete these courses. The counselor will meet each qualifying student after each semester to continue to update their Laude status. In the event of a tie when the Laude Scores are calculated, the ACT scores will be used to declare the winner. In the event of tied ACT Scores, the Highest Laude Point Score Title will be shared.

## Cum Laude or Higher Placement

Students must meet two criteria to earn Laude Distinction:

- Cumulative GPA of 3.4 or higher
- Laude Score of 4 or higher

**Cum Laude** (With Honor/Distinction: Laude Score of 4-17.49)

**Magna Cum Laude** (With Great Honor/Distinction: Laude Score of 17.5-28.79)

**Summa Cum Laude** (With Highest Honor/Distinction: Laude Score of 28.8+)

## Laude Point Courses

- Start College Now Course(s): 0.5
- AP Courses & CAPP Eng.: 1.5
- American Lit & College Prep Eng.: 1
- Economics: 0.5
- Physics: 1
- Human Biology: 1
- Biology 2: 1
- Chemistry 1
- AP Chemistry: 1.5
- AP Biology: 1.5
- Pre-Calculus/Trigonometry: 1
- Statistics: 1
- Animal Science TC: 1
- Ecology TC: 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 3yrs + 1st on class A Solo/Ens.)
- Robotics/Advanced Robotics: 1
- SMAW/GMAW Welding Courses: 1

## How do I calculate my Laude Score?

Figure out how many Laude points you have using the listing of Laude courses and their point value and then your GPA.

**This table is just a guide. To calculate your actual laude score you should multiply your Cumulative GPA by the laude points earned. (example 3.827 GPA x 8.5 Laude Points = 32.53)**

		G.P.A.						
		4.0	3.9	3.8	3.7	3.6	3.5	3.4
Honors Points	15	60	58.5	57	55.5	54	52.5	51
	14	56	54.6	53.2	51.8	50.4	49	47.6
	13	52	50.7	49.4	48.1	46.8	45.5	44.2
	12	48	46.8	45.6	44.4	43.2	42	40.8
	11	44	42.9	41.8	40.7	39.6	38.5	37.4
	10	40	39	38	37	36	35	34
	9	36	35.1	34.2	33.3	32.4	31.5	30.6
	8	32	31.2	30.4	29.6	28.8	28	27.2
	7	28	27.3	26.6	25.9	25.2	24.5	23.8
	6	24	23.4	22.8	22.2	21.6	21	20.4
	5	20	19.5	19	18.5	18	17.5	17
	4	16	15.6	15.2	14.8	14.4	14	13.6
	3	12	11.7	11.4	11.1	10.8	10.5	10.2
	2	8	7.8	7.6	7.4	7.2	7	6.8
	1	4						

## 4 Yr. Course Planning Worksheet

FRESHMAN		SOPHOMORE	
English 9	1	World Literature 10	1
US History	1	World History	1
Biology	1	Physical Science, Earth & Environmental Science, Animal Science TC, Biology 2, AP Biology	1
Math: <b>Choose</b>	1	Math: <b>Choose</b>	1
P.E. 1 Health	.5 .5	P.E. - <b>Choose</b>	.5
Up to 2 elective credits	1-2	Up to 3 elective credits	2-3
<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6</b>	<b>MUST TAKE AT LEAST 6.5 CREDITS</b>	<b>6.5</b>
JUNIOR		SENIOR	
Course Name	Credits	Course Name	Credits
English 11, American Literature 11 or A.P. English-Literature and Comp.	1	English 12, College Prep English or CAPP English.	1
Chemistry, Biology 2, Physics, Earth Science, AP Chemistry, or AP Biology	1		
Math: <b>Choose</b>	1	Employability Skills Financial Literacy	.5
Global Studies Government	.5 .5	Up to 4 Elective Credits	
P.E. - <b>Choose</b>	.5		
Up to 3 Elective Credits	2-3		
<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6.5</b>	<b>MUST TAKE AT LEAST 6 CREDITS</b>	<b>6</b>

## Post-Secondary Admission Tips

### University of Wisconsin System

Now, all UW System schools require you to complete at least 13 credits in the core subjects, plus four credits in subjects you choose (foreign language, art, music, or computer science). Technical and career courses may also be accepted for a portion of your elective credits.

English 4 credits  
Mathematics 3 credits  
Natural Science 3 credits  
Social Science/History 3 credits

In addition to the “core college preparatory” credits identified, students need to complete a minimum of four elective credits as follows:

Electives: An additional 4 credits may be chosen from English, mathematics, natural science, social science/history, foreign language, fine arts, computer science, and other academic areas. (Two years of a single foreign language are required for admission to UW-Madison, and are encouraged at other UW System campuses.) Some UW System campuses may also accept technical and career courses for a portion of these 4 elective credits.

### 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

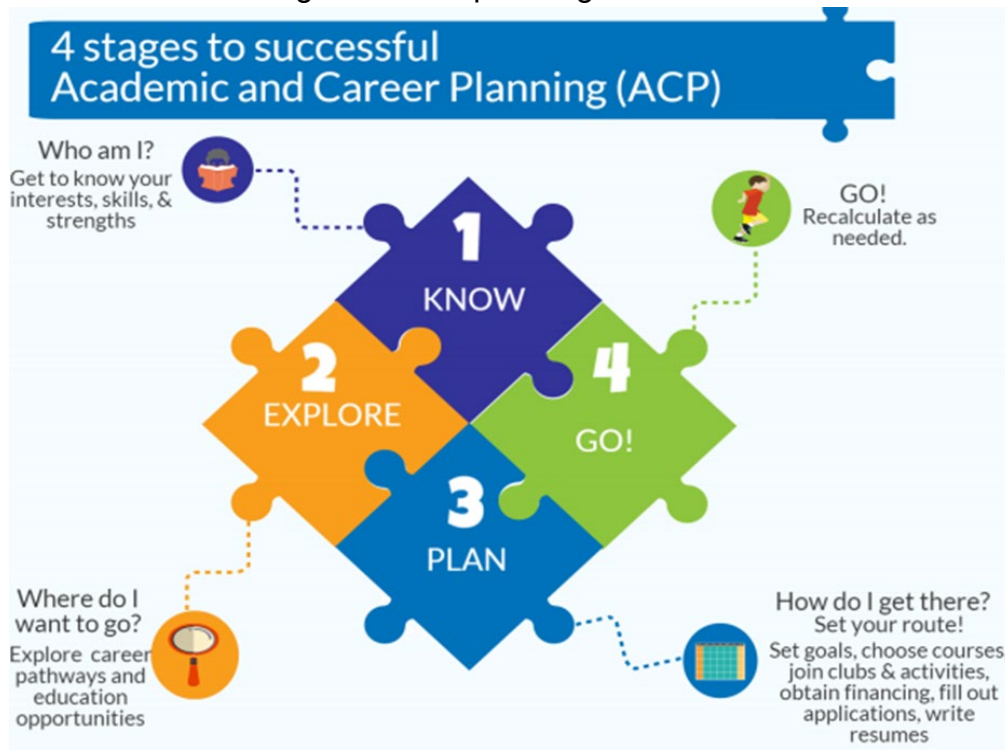
Students must meet the following minimum requirements in order to be eligible for admission:

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 (ACP)

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.

# Transcripted Coursework



## Transcripted 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 High School.
- The curriculum is devised by FVTC and the student is registered in both the high school and FVTC course.
- The student receives a grade from the high school as well as from FVTC and is posted on an official FVTC transcript.
- The high school maintains the student record; FVTC also maintains its own student record.

For more information: [www.fvtc.edu/techprep](http://www.fvtc.edu/techprep)

Little Wolf High School courses:

### Transcripted Credit

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

# NCAA Divisions I and II Initial-Eligibility Requirements

## Core Courses

- **NCAA Division I require 16 core courses. NCAA Division II currently requires 16 core courses.**
- **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).
  - It is possible for a Division I college-bound student-athlete to receive athletics aid and practice with the team if he or she fails to meet the 10-course requirement but will not be able to compete.

## Test Scores

- Colleges and/or scholarship programs may still require test scores.
- **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](http://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.
- The Division I core GPA requirement is a minimum of 2.3000.
- The Division II core GPA requirement is a minimum of 2.2000.
- 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 years 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.

Recommended Sequence of Available English Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	English 9	World Literature 10	English 11	English 12
1			American Literature 11	College Prep English 12
1.5			A.P. English Literature & Composition	CAPP English 12

## 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.

**1 Credit**

**Grades: 9**

**Prerequisite: None**

**World Literature 10 – *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.

**1 Credit**

**Grades: 10**

**Prerequisite: English 9**

**English 11 - one choice of three for junior students** — This one credit course is designed to meet the needs of those students who do not intend to pursue further education at a four-year university after high school. This course presents an integrated reading and writing curriculum with traditional and modern American literature selections and associated writing assignments and essays. Students read and learn about stories, poems, plays, novels, themes, and authors in a historical context. Communication, language, and vocabulary usage skills will be emphasized. Individual and group projects and ACT test preparation/practice will also occur throughout the year.

**1 Credit**                      **Grades: 11**                      **Prerequisites:**                      **World Literature 10**

**American Literature 11 – one choice of three for junior students — 1 Laude Point--** This one credit course is designed to meet the needs of those students who plan to pursue further schooling but 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 literary analysis essay, documented persuasive essay, and a detailed character comparison essay. Individual and group projects and ACT test preparation/practice will also occur throughout the year.

**1 Credit**                      **Grades: 11**                      **Prerequisites:**                      **World Literature 10**

**A.P. English-Literature and Composition --one choice of three 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 way’s 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 take A.P. Literature and Composition are encouraged to check with any college or university they plan to attend to verify whether that school will assign credit for AP coursework.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: World Literature 10 (Grade of A)**



**English 12** – *one choice of three for senior students*. This on credit course is designed to meet the needs of students who will not be taking CAPP or College Prep English Coursework. This course is focused for students who plan to enter the workforce or an apprenticeship program at a technical college. Students will practice basic narrative, informative, and persuasive writing, as well as, strengthen reading skills. Basic vocabulary and grammar/editing skills will be emphasized. Reading will consist of both fiction and informational text throughout the course.

**1 Credit**                      **Grades: 12**                      **Prerequisite: English 11 (or)**  
**American Literature 11 (or)**  
**A.P. English Lit. & Composition**

**College Prep English 12**--*one choice of three for senior students* --**1 Laude Point** --This one credit course is designed to prepare students for post-secondary training at a four-year university or for a two-year technical college. Integrated reading and writing skills will be the focus, as well as higher level speaking, vocabulary, and critical thinking skills. Various study and note-taking skills important for the college-bound student will be introduced and practiced. A research paper covering a future career will be developed practicing both MLA and APA citation format. Reading will focus on informational text and fiction, with an emphasis on annotation and close reading skills. In addition, guidance and support will be offered to assist students with the transition between high school and college.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: American Literature 11 (or)**  
**A.P. English Lit. & Composition**

**CAPP English 101 (Dual Credit College Course)/ Crime and Punishment in American Society** --*one choice of three for senior students*--**1.5 Laude Points** -CAPP English focuses on 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 fiction and nonfiction texts alike. This course will prepare students for college and will earn them 3 credits equivalent to college English at over 100 Universities nationwide, including all the UW system campuses. \*\*There is a reduced college tuition cost for this course as college credit is awarded. **Student will be enrolled at UW Oshkosh.**

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: American Lit. 11 (Grade of A) (or)**  
**A.P. English Lit. & Composition**  
**(Grade of B or better)**

**English Electives—the following may be taken IN ADDITION TO, not in place of, required English coursework**

**Recreational Literature-** Designed for non-college bound student (not a college preparatory class) To encourage readers to value literature as a leisure activity, students select and read eight-ten books within specified literary genres (both fiction and nonfiction) approved by instructor. In addition to keeping a reading log, each book requires the completion of a final project. **This course is provided through Erving.**

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

**Oral/Interpersonal Communication:** The communication process, perception, and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation. **This is provided through Erving (NTC & NWTC)**

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

# 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.

Recommended Sequence of Available Math Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	Algebra (or)	Geometry (or)	Geometry (or)	Geometry
None	Geometry	Advanced Algebra (or)	Advanced Algebra (or)	Advanced Algebra
None		Trade Math	Trade Math (or)	Trade Math
None				Senior Math
1			Pre-Calculus & Trigonometry (or)	Pre-Calculus & Trigonometry
1			Statistics	Statistics
1.5			A.P. Calculus AB	A.P. Calculus AB

**NOTE:** All students who qualify to take Algebra in their 8<sup>th</sup> 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 B- 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**

**Grade: 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**

**Advanced Algebra** 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**

**Trade Math** – Intended for students considering attending a technical college or the world of work. Focuses on 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. **NOTE: Trade Math as a junior class needs to be approved by a teacher.**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: 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**  
**(Recommend 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.**

**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**  
**(Recommend 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.

Recommended Sequence of Available Science Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	Biology 1	Physical Science (or)	Physical Science (or)	Physical Science (or)
None		Earth & Environmental Science (or)	Earth & Environmental Science (or)	Earth & Environmental Science (or)
1			Chemistry (or)	Chemistry (or)
1			Biology 2 (or)	Biology 2 (or)
1			Human Biology (or)	Human Biology (or)
1			Physics (or)	Physics (or)
1		Animal Science TC (or)	Animal Science TC (or)	Animal Science TC (or)
1		Ecology TC (or)	Ecology TC (or)	Ecology TC (or)
1.5		AP Biology	AP Biology (or)	AP Biology (or)
1.5			AP Chemistry	AP Chemistry

**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**

**AP Biology – 1.5 Laude Point** – AP Biology is a laboratory science class designed to simulate the first semester, introductory Biology class at any college or university. For most students, this course enables them to take the second semester of Biology for any science related major, or fulfill the science requirement for non-science majors. This course is approved by the College Board. As such it is based on the 6 Big Ideas and seven science practices outlined in the curriculum framework. We will study the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena.

**1 Credit**                      **Grades 10-12**                      **Prerequisite: Biology 1 (B or better)**

**Earth & Environmental Science** – 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. The course also provides information on human influence on the environment.

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

**Chemistry 1 – 1 Laude Point** 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, Physical Science, & Beginning Algebra (Recommend grade of C or better)**

**AP Chemistry - 1.5 Laude Point** AP Chemistry is a laboratory science class designed to simulate the first semester, introductory chemistry class at any college or university. For most students, this course enables them to take the second semester of chemistry for any science related major or fulfill the science requirement for non-science majors. This course is approved by the College Board. As such it is based on the 6 Big Ideas and seven science practices outlined in the curriculum framework. AP Chemistry is open to all students that have completed chemistry with a B or better and who wish to take part in a rigorous and academically challenging course.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: B or better in 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: 11-12**                      **Prerequisite: Biology 1 & Physical Science (or) Chemistry (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 includes 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 for future use.**

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

**Physics 1 – 1 Laude Point** A laboratory-oriented course designed to investigate the physical aspects of our universe and 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, Geometry, Physical  
Science (or) Chemistry. (grade of  
B or better, recommend Algebra 2)**

**Animal Science TC – 1 Laude Point –** This class is designed for the person interested in animals. Students will learn about livestock, agriculture, and 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 designed as 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.**

**1 Credit                      Grades: 10-12                      Prerequisite: Biology 1 (with C or above)**

**Ecology TC- 1 Laude Point** - This class examines the relationships and interrelationships of living organisms in their environment. Students study natural selection and speciation, environmental conditions, populations and competition, succession, energy flow and biogeochemical cycles, and the diversity of ecosystems.

**1 Science or Elective Credit                      C or better earns 2 credits at Fox Valley  
Technical College (transcribed credit)**

**Grades: 10-12                      Prerequisite: C or better in Biology 1**



**Astronomy-** Astronomy deals with the matter and energy in the universe. We will cover various topics including early astronomy, space exploration, the solar system, search for extraterrestrial life, stars and constellations to name a few. This course allows students to choose from a variety of assignments that are geared toward their interest and ability level to learn the content. The course includes computer simulations, labs, night sky observations and visits to the UWSP planetarium. **This is provided through Erving**

**1 Credit**                      **Grades: 9-12**                      **Prerequisite: None (Algebra 1 with C or better)**

**Anatomy & Physiology-** A concentrated course on the human anatomy and physiology that demands focused study and preparation in anatomy and physiology. Students should be prepared to take quizzes and tests both on MOODLE and Paper Copy. Most Labs are virtual as we are in an ERVING classroom. Topics Include: \*skeletal and muscles \*nervous system \*cardiovascular \*endocrine system. **This is provided through Erving**

**0.5 Credit**                      **Grades 11-12**                      **Prerequisite: A or B in the Biology. Except 3-6 hours of study for per week.**

**Medical Terminology-** In medical terminology students will learn the component parts of medical terms such as prefixes, suffixes and word roots. Students will learn the rules for building and defining medical terms. Emphasis is placed of the correct spelling of the terms. Students will practice formation, analysis and reconstruction of medical terms. Students will be introduced to diagnostic, therapeutic, symptomatic, and surgical terminology for the body systems. **This is provided through Erving**

**0.5 HS Credit**                      **Grades 11-12**                      **Prerequisite: None**  
**3 FVTC or NTC Credits**

**Body Structure & Function-** A full-year study in the structures and functions of the human body systems. Units studied include basic biochemistry, cytology, histology and twelve systems of the human body. Several animal dissections are part of the lab component, including the dog shark, white rat and domestic cat. Organ dissections of the heart and kidney are also presented. Virtual labs are also used for higher level understanding. This course would be of special interest to students interested in health and animal sciences. It is offered as Dual Credit through the NTC campus in Wausau. All Tests are taken on the CANVAS learning platform. Students must earn a grade of B or higher to receive the dual credit from the technical college. Students earning a passing grade less than a B will only receive the high school credit. **This is provided through Erving**

**1 HS Credit**                      **Grades: 10-12**                      **Prerequisite: Biology with a B or higher**  
**3 NTC Credits**                      **Recommendation from Teacher/Counselor**

**Intro to Environmental Studies-** This course presents an overview of the interrelationships between humans and the environment. The material presented in the first one-third of the course focuses on important ecological concepts. The remainder of the course deals with human influence on the environment. The ecological concepts are used throughout to identify, understand, and provide a basis for proposing possible solutions to contemporary environmental problems. Overall, this course will provide the student with a better understanding of how humans can more positively affect the environment in which they live. Students will need access to internet, email and the University's course management system Canvas. Designed to apply toward the UWRF general education Ethical Citizenship requirement. **This is provided through Erving (UWRF)**

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

**Intro to Health Careers-** As a student, you will learn more about professionalism in a hospital or clinic setting along with communication skills it takes to work with a variation of health professionals in a busy workplace. Students will also learn the importance of patient privacy and confidentiality and why it is so important for you to know. This course will allow you to explore the job descriptions of several health careers while learning the personal characteristics needed to be successful in those careers and the career planning necessary when entering the field of medicine. **This is provided through Erving (NTC)**

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

**Customer-Focused Caregiving-** Do you want to learn more about customer service? This two credit on-line course will allow you to learn how healthcare workers function professionally in the healthcare setting. Also, this course will allow you to understand how passionate communication fosters healing of the human body. **This is provided through Erving (NTC)**

**0.5 Credits                      Grades: 11-12                      Prerequisite: None**

**Culture of Healthcare-** Prepares learners to work in the healthcare environment as part of a healthcare team. Learners will investigate the healthcare community, patient privacy standards, and the professional behavior that is expected in today's medical community. Learner will examine various aspects of verbal and written communication skills, customer service principles, and problem solving techniques necessary to be a vital member of the healthcare workforce. **This is provided through Erving (NWTC)**

**0.5 Credits                      Grades: 11-12                      Prerequisite: None**

# 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 provide needed perspective in addressing the past, the present, and the future.

Recommended Sequence of Available Social Studies Courses				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	U.S. History	World History	Government	
None			Global Studies	
None			Sociology (or)	Sociology
0.5			Economics (or)	Economics
1.5			A.P. Psychology (or)	A.P. Psychology
1.5			A.P. U.S. History	A.P. U.S. History

## Course Descriptions

**U.S. History**– 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. Democratic republic, 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 full year. The class will be taught using a mix of chronological and thematic approaches for a better understanding of our history. We live in a country with a rich history that shapes the American experience we share today and will share in the future.

**1 Credit**                      **Grade: 9**                      **Prerequisite: None**

**World History** – 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 relies heavily on the study of primary and secondary sources.

**1 Credit**                      **Grade: 10**                      **Prerequisite: US History**

**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** – 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 maximizing prices and the role of government. At the end of the quarter, the class will switch to macroeconomics, the study of the economy. Topics of study will include; GDP, economic growth, money, banking, the Federal Reserve and international trade. **Note: 10<sup>th</sup> grade upon teacher approval.**

**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 human behavior and mental processes. 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 question.

**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. **Note: 3.0 GPA.**

**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 US History events and issues. 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 weigh the evidence and interpretations presented in historical scholarship. An AP US History course should develop the skills necessary to arrive at conclusions based on 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 High School. Cost is approximately \$93.00. Note: 10<sup>th</sup> grade upon teacher approval.

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: U.S. History**  
**(Recommend grade of B or better)**

**Global Studies**– Students may take this course their 11<sup>th</sup> or 12<sup>th</sup> 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.

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

**Government**– This portion of the course provides the student an opportunity to acquire detailed knowledge of the Constitutional Republic 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: 11-12**                      **Prerequisite: None**

**Military History**- The Military History course is designed to increase students critical thinking abilities by examining a number of famous battles and conflicts throughout history. Students will study the equipment, tactics, and strategies used in various conflicts from multiple perspectives. Students will examine primary source material in an effort to determine what really happened, and to gain a better understanding of the reliability, limitations, and usefulness of a source. **This is provided through Erving**

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

**Human Behavior-** Human Behavior is a social psychology course, which explores common factors which stimulate a wide variety of human behaviors. Basically, it's a chance to gain an understanding of why we act the way we do, and why people react to us the way they do. The course is primarily lecture with some project work. **This is provided through Erving**

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

**Current Events-** This class will deal with the major issues concerning both the United States and the world today. Students will learn about the differing perspectives held by people around the contemporary world. Emphasized in this class will be the relationship that the United States has with the rest of the world and the impact that has on American society. Also covered in this class will be current events focusing on American domestic issues as well as on foreign policy. Many of the topics covered in this class will change from semester to semester to encompass our ever-changing world. **This is provided through Erving**

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

**World Cultures-** This course will be exploring the world and its cultures. The primary focus of the course will be through the lens of geography, whether we're learning about where different countries are throughout the world, their landscape, their resources, their culture, their food, and their customs. The course will cover each major region of the world and we'll be covering a broad examination of the region as you focus in each unit on a specific country, region, or group of people to research more thoroughly and then you'll share your findings with the class. **This is provided through Erving**

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

**Intro to American Government-** This course introduces American political processes and institutions: focusing on rights/responsibilities of citizens and the process of participatory democracy. Examines separation of powers and checks/balances & the roles of different groups. **This is through Erving**

**1 Credit                      Grades: 11-12                      Prerequisite: None**  
**3 NWTC Credits**

**Psychology-** This course enables students to gain knowledge of such topics as perception, motivation, emotion, memory and thought, the brain and behavior, conflict, stress, personality, abnormal behavior and experimentation. A psychology course can help students better understand themselves and others. Any student who plans on any type of post high school training should consider this course. **This is through Erving.**

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

**Intro to Diversity Studies-** Basic American values of justice and equality by teaching vocabulary, history of immigration/conquest, transcultural communication, legal liability, multicultural majority/minority relations, ageism, sexism, gender, sexual orientation, the disabled/ADA. **This is provided through Erving (NWTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**3 NWTC Credits**

**Intro to Diversity Studies-** In this academic setting, patterns of current and historical relationships between different racial, ethnic, religious, disabled, gender, and LGBTQ+ populations are analyzed. Every informed opinion is welcome. Social Scientists have long been studying and discussing the importance of diversity. Come and experience a fun and challenging social science course where students often report, "I can't believe how much I learned!". **This is provided through Erving (NTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**3 NTC Credits**

**Developmental Psychology-** Defines human development; examines theories; heredity and environmental effects; prenatal development and birth; evaluates biosocial, cognitive psychosocial development through the life span; aging, death, and dying. **This is through Erving.**

**1 Credit**

**Grades: 11-12**

**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.

<b>Recommended Sequence of Available World Language Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Spanish 1	Spanish 1	Spanish 1	Spanish 1
None		Spanish 2	Spanish 2	Spanish 2
1			Spanish 3	Spanish 3
1				Spanish 4

## Course Descriptions

**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. **This is provided through Erving**

**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. **This is provided through Erving**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: Spanish 1**  
**(Recommend 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. **This is provided through Erving**

**1 Credit**                      **Grades: 11-12**                      **Prerequisite: Spanish 2**  
**(Recommend 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. **This is provided through Erving**

**1 Credit**                      **Grade: 12**                      **Prerequisite: Spanish 3**  
**(Recommend grade of C or better)**



**French 1-** It is the goal of this course to not only learn of the French language and culture but to use it! This course will establish basic French oral and written communication skills and knowledge of the French language and culture. This will be accomplished through the use of “hands on” activities including classroom drama, conversational skits, written composition, reading, music, and individual/group projects. Students will need to buy a specific French dictionary. This is a Blue Jeans class. Cost: \$350 per student, per semester for a total of \$700 for the year. **This is through Erving (Full year)**

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

**French 2-** This course will establish and improve French oral communication skills and also increase knowledge of the le monde Francophone. While utilizing a cultural framework of actual, everyday French activities and cultural items, the student will also increase grammar and writing skills by speaking every day! The goal of this course is to prepare student to “survive” in a French speaking country by communicating in the target language: French! Students will need to buy a specific French dictionary. This is a Blue Jeans class. Cost: \$350.00 per student per semester for a total of \$700.00 for the year. No textbooks. **This is provided through Erving**

**1 Credit                      Grades: 10-12                      Prerequisite: French 1**

**German 1, 2, 3, 4:** This is through Erving (Full Year)

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

**Japanese 101-** Study of language fundamentals with emphasis on development of listening and speaking skills. Practice with reading and writing. Japanese script (hiragana, katakana and kanji) is taught from the beginning of the course. Presumes no previous language study. University Studies Requirement Met: World Language, Culture, & Philosophy Offered: Fall, online and asynchronous. **This is through Erving (UW Superior)**

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

**Japanese 102-** Continuation of JAPA 101. Appropriate for someone with up to two years of high school Japanese. **This is through Erving (UW Superior)**

**1 Credit                      Grades: 9-12                      Prerequisite: Japanese 101**

**American Sign Language-** Relating to the deaf culture including non-manual grammatical markers, signing, fingerspelling, classifying and the technology related to deafness. **This is through Erving (NWTC)**

**1 Credits                      Grades: 11-12                      Prerequisite: None**  
**3 NWTC credits**

# Physical Education & Health

(Physical Education 1.5 credit- Health 0.5 credit)

The physical education and health curriculum focus on understanding the human body, enjoying exercise, and maintaining a desirable level of physical fitness. **Note:** In grades 9-12 students must take at least 1.5 credits of physical education incorporating effects of exercise, health-related fitness, and lifetime activities. The credits must be earned over **three separate years**.

Recommended Sequence of Available Physical Education & Health Courses				
Laude Points	Both Required Grade 9	Grade 10	Grade 11	Grade 12
None	Physical Ed 1	Physical Ed Elective (or)	Physical Ed Elective (or)	Physical Ed Elective (or)
None	Health	Personal Fitness	Personal Fitness	Personal Fitness
None			Team Sports	Team Sports

## Course Descriptions

\*Students have to complete at least two or more Physical Education classes between 10th and 12th Grade to earn their remaining PE Credits.

**Physical Education I** – required – Freshman Course. Units covered are geared toward individual and team sports. The units covered are flag football, ultimate frisbee, disc golf, volleyball, basketball, weight training, fitness, badminton, softball (seasonal), OMNIKIN, Tsegball, Eclipse Ball, kickball, and Pickle Ball.

**0.5 Credit**                      **Grade: 9**                      **Prerequisite: None**

**Health** :- required – A Wellness Decision 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**                      **Grade: 9**                      **Prerequisite: None**

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

**0.5 – 1 Credit                      Grade: 10-12                      Prerequisite: Physical Education 1**

**Personal Fitness** – 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 cardiorespiratory endurance activities and wide-ranging weight training exercises. Course includes lectures 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.

**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, mat ball, OMNIKIN, soccer, Pickle Ball, speedball, etc.

**0.5 – 1 Credit                      Grades: 11-12                      Prerequisite: 11th or 12th Grade**

**Additional Physical Education Options:**

- A student who participates in a sport is eligible to substitute an English, social studies, mathematics, or science course for one-half (.5) credit in lieu of physical education. The following criteria must be met in order to complete this:
  - A. Student (not a manager) must participate in a H.S. sport for an entire season.
  - B. Student must submit a verification form completed by the coach no later than two (2) weeks after the conclusion of the season.
  - C. The student must be an athlete who is eligible to practice for the entire season.
- A student can take one-half credit of PLATO PE to meet physical education requirement upon the teacher's approval for special circumstances.
- A student who participates in marching band for 3 H.S. years, confirmed by a verification form completed by the band director, will be eligible for one-half (0.5) credit of P.E.
- Waivers are not approved for physical education credit.

# Agriculture/ Financial Literacy

Agriculture courses are for any student who has an 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.

<b>Recommended Sequence of Available Agriculture Courses</b>				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	Plants, Animals, & You	Plants, Animals, & You	Plants, Animals, & You	Plants, Animals, & You
None	Food Science	Food Science	Food Science	Food Science
None		Leadership	Leadership	Leadership
None			Independent Study	Independent Study
None			Work Study	Work Study
None			Youth Apprenticeship	Youth Apprenticeship
None				Financial Literacy & Employability Skills (Req.)
1		Animal Science TC	Animal Science TC	Animal Science TC
1		Ecology TC	Ecology TC	Ecology TC

## 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 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.

**1 Science or Elective Credit**                      **C or better earns 3 transcribed credits @ FVTC**  
**Grades: 10-12**    **Prerequisite: 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 incorporated. Students may earn State Leadership certificate through this course.

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

**Independent Study** – Students develop their own projects based on interests or courses that are not currently offered. The curriculum will be coordinated with student input to provide enrichment opportunities.

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

**Ecology TC- 1 Laude Point** - This class examines the relationships and interrelationships of living organisms in their environment. Students study natural selection and speciation, environmental conditions, populations and competition, succession, energy flow and biogeochemical cycles, and the diversity of ecosystems.

**1 Science or Elective Credit**                      **C or better earns 2 transcribed credits @ FVTC**  
**Grades: 10-12**    **Prerequisite: C or better in Biology 1**

**Summer Independent Study** - Students develop their own projects based on interests. Students will complete a weekly log, a minimum of 75 hours of project time, and meet a minimum of four times with the instructor.

**.5 Credit - Pass/Fail** **Grades: 7-12** **Prerequisite: FFA Membership & Instructor Approval**

## Other Agricultural Course

**Work Study** – Students must have paid employment and work a minimum of 5 hours on average/per week. All students in the work-study program will have a contract on file signed by the student, employer, parent, and work-study supervisor (Mrs. Cordes). Qualified students may have zero, one, or two periods of daily work release time and will receive one credit for successful completion of course requirements in the year-long course. Students not passing their courses will be subject to work release restrictions. In-person instruction will be completed on Wednesdays during 9th hour. This course is offered for Juniors and Seniors.

**1 Credit**

**Grades: 11-12**

**Prerequisite: Employment**

**Youth Apprenticeship** - Youth Apprenticeship is a one or two-year program that combines mentored, and on-the-job learning with academic and technical classroom instruction. It opens doors for students by giving them the chance to “try-out” a career area while experiencing an adult working environment. Students gain paid, hands-on learning with a business mentor, while completing classroom instruction related to the career area.

Students may apply in the spring for jobs that will start during the summer of their junior or senior year OR can join with qualified employment they have obtained. Businesses select the apprentices that are the best fit for their organizations and open positions; there are no forced placements. Once hired, apprentices spend part of their week learning at school and part of the week learning on the job. Students are responsible for their own transportation. Upon completion, students will earn industry certifications. Students enrolled in certain programs can also earn credit for UW Admissions.

Youth Apprenticeship Program areas include Agriculture, Construction, Financial Services (Banking/Accounting), Human Resources, Communication, Health Science, Hospitality, Information Technology, Manufacturing, Marketing, STEM, and Transportation. Students must stay in the pathway area for the duration of the program.

Students will conference weekly with Mrs. Cordes and have monthly meetings with our CESA coordinator. Modules will be completed along with employer evaluations. Students will receive a quarterly letter grade with input from the employer. Students must complete the requirements of the program in order to pass the course.

*Work release hours and credits earned will be determined by schedule and work needs; approved by agriculture teacher and guidance counselor.*

For more information, contact Jamie Brown, 920-840-0041, [jbrown@cesa6.org](mailto:jbrown@cesa6.org)

**1+ Credit      Grades: 11-12      Requirements: Enrolled in 1 credit of related coursework.  
Completing all CESA paperwork.  
On track to Graduate.  
Interest in developing employability skills  
while gaining work skills.**

## **Financial Literacy/Employability Skills – REQUIRED**

**Employability** - 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 Covey's 7 Habits of Highly Effective Students, core abilities, employability applications, post-high school survival, etc.

**Financial Literacy** - 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**

**Veterinary Medical Terminology**- Develop an understanding of acceptable veterinary medical terminology for common clinically recognizable diseases, operations, systems, and procedures. Further, learners will distinguish common medical signs, abbreviations, and colloquial vocabulary. Medical terms and language is covered as it relates to the animal's body as a whole. This is through Erving (NTC)

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

# Art

## Course Descriptions

**Art 1- 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, printmaking and papermaking.

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**Art 1- 3D**– An introductory course in design, art history, art terminology and related concerns; activities may include (but not limited to) hand built pottery, wheel pottery, sculpture, jewelry (bead weaving), metals and glass (etching).

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**Art 2 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 and painting with various media (graphite, colored pencil, pen and ink, acrylic, watercolor), relief printmaking, and paper arts (bookbinding).

**0.5 Credit (1 Semester)**

**Prerequisite: Art I – 2D**

**Art 2- 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 hand-built pottery, wheel pottery, sculpture, jewelry, metals (lost wax cast silver rings), and glass (mosaics).

**0.5 Credit (1 Semester)**

**Prerequisite: Art I – 3D**

**Art 3 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 (intaglio), paper arts (quilling, manipulated paper).

**0.5 Credit (1 Semester)**

**Prerequisite: Art II – 2D**



**Art 3 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 hand-built pottery, potter’s wheel, art metals (fabrication), stained glass (copper foil technique), advanced jewelry.

**0.5 Credit (1 Semester)**

**Prerequisite: Art II – 3D**

**Art 4- 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, therefore - Students accepted into this course must have a strong previous background in previous years of art experiences. Students are accepted into Art IV by the Instructors' Permission. Students considering a career in art or design related fields 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.

**0.5 Credit (1 Semester)**

**Prerequisite: Instructor’s Permission**

**Art 4 - 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, therefore - Students accepted into this course must have a strong previous background in previous years of art experiences. Students are accepted into Art IV by the Instructors' Permission. Students considering a career in art or design related fields 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

**0.5 Credit (1 Semester)**

**Prerequisite: Instructor’s Permission**

**Photography and Graphic Design**– 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, developing 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. Students will learn graphic design and commercial art techniques through 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).

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**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.

**0.5 Credit (1 Semester)**

**Prerequisite: None**

**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 may include the creation of a quilt square and a small garment by following a sewing pattern.

**0.5 Credit (1 Semester)**

**Prerequisite:(Preferred) Fiber Arts A**

**1 Laude Point Earned for Senior Art (3+ credits of art and 2 years on Art Team)**

***\*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.***

# Business

**Personal Finance-** Personal Finance contains units on the banking, checking, wages, savings, budgeting, credit buying, insurance, investments, home options and expenses, car expenses, and taxes. Students have the option at the beginning of the course for the option of three elective credits toward graduation at UWO through the CAPP Program. **This is through Erving.**

**0.5 HS Credit                      Grades: 11-12                      Prerequisite: None**  
**3 UWO Credits**

**Intro to Marketing-** This course will give you the foundations and functions of marketing. Students will then be able to create a marketing plan, create and distribute a product, set a price, promote the product, and then learn how to manage the risks and finances. **This is through Erving.**

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

**Accounting 1 & 2-** This high school course in accounting involves principles and methods of recording business transactions and the preparation of financial statements with emphasis on the records of a sole proprietorship, partnerships, and corporations. **This is through Erving.**

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

**Personal Brand Development-** Learn how personal branding allows you to differentiate yourself from the competition through appearance, personality, and marketing competency. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: College 101, 10-890-101**  
**2 NWTC credits**

**Logistics/Supply Chain-** Logistics supply chain, demand management and customer service, procurement and supply management, global logistics, manufacturing, inventory management, warehousing, transportation and third-party logistics. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: None**  
**3 NWTC credits**

**Social Media Marketing-** Cover the current state of social media and provide perspective on trends moving forward. Learn about the opportunities social media provides, what interactions mean for a business, and how communication has changed. **This is through Erving (NWTC)**

**0.5 Credits                              Grades: 11-12                              Prerequisite: None**  
**3NWTC credits**

# 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.

## Technology Course Descriptions

<b>Recommended Sequence of Available Technology Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Intro to Technology	Intro to Technology	Intro to Technology	Intro to Technology
None		Furniture & Cabinet Making	Furniture & Cabinet Making	Furniture & Cabinet Making
None		Metals 1	Metals 1	Metals 1
1			Shielded Metal Arc Welding (SMAW) Techniques	Shielded Metal Arc Welding (SMAW) Techniques
1			Gas Metal Arc Welding (GMAW) Techniques	Gas Metal Arc Welding (GMAW) Techniques

**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. The students will work safely and efficiently with both hand and power woodworking tools. Students will learn how to make something out of wood and follow the process from a tree in the forest to a finished product and all steps in between.

**1 Credit**

**Grades: 9-12**

**Prerequisite: None**

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

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

## Engineering Course Descriptions

<b>Recommended Sequence of Available Engineering Courses</b>				
<b>Laude Points</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
None	Intro to Programming	Intro to Programming	Intro to Programming	Intro to Programming
None	Intro to DC Circuits	Intro to DC Circuits	Intro to DC Circuits	Intro to DC Circuits
None		Engineering	Engineering	Engineering
None		Programming 1	Programming 1	Programming 1
1		Robotics 1	Robotics 1	Robotics 1
1			Robotics 2	Robotics 2
1			Programming 2	Programming 2

**Intro to Programming** - This course is designed to introduce the student to the fundamentals of programming. Students will learn the basics of block coding and basic game programming. Students will also be introduced to the basics of robotic programming, website design, JavaScript, and Python.

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

**Intro to DC Circuits** - This course is designed to introduce the student to the fundamentals of direct current circuits. Students will learn the basics of series and parallel circuits, switches, resistors, circuit diagramming, and wiring. Students will also be introduced to Ohm's Law, multimeters, and soldering.

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

**Programming 1** - This is an introductory computer science course that takes a wide lens on computer science by covering topics such as problem-solving, programming, physical computing, user-centered design, and data while inspiring students as they build their own websites, apps, animations, games, and physical computing systems.

**1.0 Credit                      Grades: 10-12                      Prerequisite: Intro to Programming**

**Programming 2 - 1 Laude Point** This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in.

**1.0 Credit                      Grades: 10-12                      Prerequisite: Programming 1**

**Engineering** - This course is designed to introduce students to the various types of engineering through hands-on activities and challenges. Students will learn about the Engineering Design Process and will apply it to various engineering projects that include 3D printed models, laser-cut products, and automated solutions using Arduino and Raspberri Pi microcontrollers. Students will use higher-level problem-solving skills to devise solutions to real-world problems.

**1.0 Credit**                      **Grades: 10-12**                      **Prerequisite: Intro to Programming & Intro to DC Circuits**

**Robotics 1 - 1 Laude Point** Students will walk through the engineering design process and build 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: 10-12**                      **Prerequisite: None**

**Robotics 2 - 1 Laude Point** Students will continue to use the engineering design process to build mobile robots that could be used in real-world situations such as manufacturing. They will continue to learn key STEM principles and robotics concepts. Students will also work on troubleshooting electrical, mechanical, and circuitry problems in various computers, robots, and toys.

**1.0 Credit**                      **Grades: 11-12**                      **Prerequisite: Robotics 1**

**AP Computer Science-** College-board approved AP class that focuses on the fundamentals of computer science. Focus is on the many facets of computer science and how it relates to the world: Internet, App Design, Programming, Cybersecurity and Computing Systems. Prepares students who are new to computer science for the AP CS Principles exam. **This is through Erving**

**1 Credit**                      **Grades: 10-12**                      **Prerequisite: Algebra**

**Computer Programing 2 CIDS-** A continuation of fundamental computer concepts and programming. Java will be used to teach the basic concepts of program analysis, design and implementation. Topics include: methods, File IO, Arrays and their applications, Abstract Data Types, Classes, simple Java GUI application, Inheritance and composition. Students will need access to internet, email and the University's course management system Canvas. Designed to meet degree requirements for UWRF Computer Science and Information Systems majors. **This is through Erving (UWRF)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: CIDS 1**  
**3 UWRF credits**

**Principles of Information Security-** An introduction to the various technical and administrative aspects of information security and assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. **This is through Erving (NTC)**

**0.5 Credit**  
**2 NTC credits**

**Grades: 11-12**

**Prerequisite: None**

**IT Development & Design Fundamentals-** Introduces the field of IT software development and design. Learners will explore degree and career paths, IT tools and processes and begin to demonstrate professional communication. Learners will create or modify a simple computer program using an integrated development environment. **This is through Erving (NTC)**

**0.5 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Programming Concepts A.-** Introduces programming concepts and terminology using an object-oriented approach, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications that incorporate classes, fields, methods, and variables. Additional topics include: utilization of an Integrated Development Environment (IDE), value and reference types, object instantiation/lifetime/scope and mathematical/conditional/logical expressions. **This is through Erving (NTC)**

**0.5 Credit**  
**1 NTC credit**

**Grades: 11-12**

**Prerequisite: IT Development & Design Fundamentals**

**Programming Concepts B.-** Reinforces programming concepts and standards, building on the object-oriented approach introduced in Programming Concepts A, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications, applying the object-oriented basics of abstraction and encapsulation. Additional topics include: the utilization of a debugger, object multiplicity and constructors. **This is through Erving (NTC)**

**0.5 Credit**  
**1 NTC credit**

**Grades: 11-12**

**Prerequisite: Programming Concepts A.**



**Programming Concepts C.-** Emphasizes programming concepts and standards, building on the object-oriented approach of Programming Concepts B, with a focus on iterative development and testing. This course uses C# .NET, the Unified Modeling Language (UML) and other tools to present concepts from a variety of perspectives. Learners will create UML diagrams and write/debug C# .NET applications, applying the object-oriented basics of abstraction and encapsulation, inheritance. **This is through Erving (NTC)**

**0.5 Credit  
1 NTC credit**

**Grades: 11-12**

**Prerequisite: Programming Concepts B.**

**Intro to IT-** This course provides an overview of Information Technology by comparing and contrasting the various fields within the broader IT industry. Students will be exposed to hardware, software, networking, programming, and analyst roles to understand how each plays an integral role in IT. **This is through Erving (NWTC)**

**0.5 Credit  
1 NWTC credit**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Programming: Logic-** Techniques for developing computer programs to solve business problems; includes logic, structure, flowcharting, comparing, looping, variables, arrays, file processing, objects, methods, properties, events, data validation, testing procedures. **This is through Erving (NWTC)**

**0.5 Credit/  
1 NTC credit**

**Grades: 11-12**

**Prerequisite: None**

**WEB: Database Development-** Database uses, database terminology, analyzing information requirements, data models, database design phases, entity relationships, normalization processes, database management systems, database objects, development environments, creating tables, writing queries using SQL, testing. (This course will require students to work outside of class to complete lab work). **This is through Erving (NWTC)**

**1 Credits  
3 NWTC credit**

**Grades: 11-12**

**Prerequisite: None**

**Principles of Civil Engineering-** Provides fundamentals of Civil Engineering from concept to completion. Civil Engineering ethics, resume and portfolio creation, and Microsoft Word and Excel will also be introduced. **This is through Erving (NWTC)**

**1 Credits  
3 NWTC credit**

**Grades: 11-12**

**Prerequisite: None**

**Website Coding-** Write code for functionality and design of web page text, hyperlinks, images, forms, tables, and frames using (X)HTML, XML and CSS. Apply coding standards. Test browser function and user accessibility. (This course will require students to work outside of class to complete lab work). **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**3 NWTC credit**

**Digital Media Overview-** Media examples in audio, video, history of radio/tv broadcasting, concepts of videography, live video streaming, pre-production, scriptwriting and motion graphics. **This is through Erving (NWTC)**

**0.5 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**2 NWTC credit**

**Renewable Energy and Sustainability-** An overview of various renewable energy technologies and sustainable design practices and their current applications. Emphasis will be placed on policies, renewable energy production, green products and jobs. **This is through Erving (NWTC)**

**1 Credits**                      **Grades: 11-12**                      **Prerequisite: None**  
**4 NWTC credit**

# 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				
Laude Points	Grade 9	Grade 10	Grade 11	Grade 12
None	High School Band	High School Band	High School Band	High School Band
None	High School Choir	High School Choir	High School Choir	High School Choir

## Course Descriptions

**High School Band**– 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 skills, 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 the instructor's discretion. Parent permission is required for drop/add requests to be considered.

**1 Credit**                      **Grades: 9-12**                      **Prerequisite: Middle School Band (or) Instructor's Approval**

**High School 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**

**General Music:** This is a class in which students explore various styles of music, musical time periods, music theory, musical instruments, the purposes of music, and music of other cultures through

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

**1 Laude Point Earned for 3+ years participation in Band and/or Choir and a 1<sup>st</sup> on a Class A Solo & Ensemble Piece**

## Other Electives

**Assisted Child Care Teacher-** This course is excellent for students who are interested in a career in which they are working with children (teacher, counseling, childcare, psychology, social work, community services). The course will emphasize the physical, emotional, social and intellectual development of children, birth to adolescent. Students will focus on the application of child development principles to the care of children while in group settings. Students are required to complete 10 hours of observation and/or instruction in a child-centered environment. Upon completion of the course, observation hours, 85% attendance, and a grade of C or better, the student will receive a DPI Skills Certificate which allows them to be employed as an Assistant Child Care Teacher. The DPI and the Wisconsin Technical College System have entered into an agreement whereby three elective credits may be awarded for successful completion of this course upon enrollment in a WTCS Early Childhood Program. **This is through Erving**

**0.5 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Written Communication-** Some topics explored in this course include: good and bad news messages, cover letters and resumes, and APA formatting. Come explore and apply professional workplace communication in this practical writing course. **This is through Erving (NTC)**

**1 HS Credit – 3 NTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Teaching-** Introduction to Teaching is designed for prospective teachers and other education professionals and serves as an introduction to both the field of education and to the Teacher Education program at UW River Falls. The course provides an introduction to interrelated aspects of education across three levels of analysis: Individual (teacher, child), Institution (school as a place to work and learn) System (schooling as reflective and transformative of society) Students learn through readings, class activities and discussions, assignments that utilize inquiry processes, and visits to educational settings. Several written assignments require students to reflect on their experiences and learning. **This is through Erving (UWRF)**

**1 HS Credit – 3 UWRF Credits**

**Grades: 11-12**

**Prerequisite: None**

**Exceptional Child-** This is a survey course examining the general aspects of students with special needs. Emphasis centers on the historical and legislative issues, definitions, eligibility, criteria and characteristics of exceptional individuals, models of delivery of services, individualized education programs and examples of accommodative techniques in the classroom and home. **This is through Erving**

**1 Credit**

**Grades: 11-12**

**Prerequisite: Intro to Teaching**

**Current Events in Criminal Justice-** Students will explore nine current issues related to law enforcement of today. Students will be given scenarios that speak to those issues and will be expected to research, reflect and eventually respond to those scenarios in a manner that effectively addresses the issues being explored. \*Students will need to have a high level of reading and writing skills for this course; research required. **This is through Erving (NTC)**

**1 HS Credit – 3 NTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**College 101-** Develops tools and strategies that support success in college. Focuses on study skills, college resources, goal setting, time management, and learning styles. Introduces concepts for self-assessing learning and completing an Exit Assessment that provides evidence that learning took place. Students should take this course prior to or during the first semester of their programs. **This is through Erving (NWTC)**

**1 Credit**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Ethics and Theory and Application-** Basic understanding of theoretical foundations of ethical thought; analyze/compare relevant issues using diverse ethical perspectives; critically evaluate individual, social/professional standards of behavior--applying a systematic decision making process. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Customer Service-** Examine customer service culture, develop communication and listening skills, explore diversity in the workplace, develop skills for handling challenging customers, and explore the impact of technology on customer service and engagement. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Human Services-** Examine the evolution of the human services field. Distinguish the various types of human service agencies and occupations available in the field. Demonstrate the qualities of the field professionals. Complete 10 hours of community service at an agency of learner's choice outside of class time. Assess boundaries and ethical issues commonly found in the human services profession. Apply reflective practitioner techniques. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits**

**Grades: 11-12**

**Prerequisite: None**

**Intro to Law Enforcement-** In this course, learners will discover the history and evolution of policing and explore thought provoking issues that underscore the challenging and rewarding world of policing. Learners will examine the role of law enforcement in a democratic society, covering concepts such as law enforcement services; crime deterrence; discretion, and the expanded role of today's police officers. This course will also explore evolving law enforcement strategies and attitudes that build effective law enforcement and community relationships including the use of problem-oriented policing. Learners will also consider how professional law enforcement officers work in conjunction with the courts, corrections and other agencies to administer criminal justice in Wisconsin. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credit                      Grades: 11-12                      Prerequisite: None**

**Private Investigation Tactics-** Private investigators are used by law firms, corporations, insurance companies and other public and private entities. This course covers the basics of locating individuals using open sources of information, ethical considerations for investigators, constitutional law application and current investigative practices as preparation for success as a private investigator, corporate and private security or insurance claim investigator. Includes lessons on developing a business and marketing plan and preparing for the Wisconsin Private Detective license exam. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits                      Grades: 11-12                      Prerequisite: None**

**Understanding Substance Abuse-** Explore the bio-psych social dynamics of substance use. Examine treatment approaches, models, and screening criteria. Examine substances of abuse, history of SUDs, and their impact on the individual and society. **This is through Erving (NWTC)**

**1 HS Credit – 3 NWTC Credits                      Grades: 11-12                      Prerequisite: None**

**Career Planning-** Experiential learning introduction. Learn how personal branding allows candidates to differentiate themselves from the competition through appearance, personality, and marketing competency. Career portfolio introduced. **This is through Erving (NWTC)**

**1 Credit                      Grades: 11-12                      Prerequisite: 10-890-101, College 101**

# Additional Offerings

## Early College Credit Program/Start College Now –

Wisconsin's Start College Now (formerly known as Youth Options) program allows public high school **students** 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 this 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. (.5 Laude Points per College Level course)**

**AP Classes**-- LWHS partners with Wisconsin Virtual School to offer additional online AP Courses. Students can take AP Classes and also the AP exam without taking the course itself. If a student earns a passing score of 3 or higher, students will earn college credit. Students will earn 1.5 Laude points for each AP course as well as high school credit. Students have until September 30 to add additional AP courses for the current school year.

Wisconsin Virtual School Classes--LWHS partners with Wisconsin Virtual School for high school courses not offered here. These courses are 20 weeks long and are fully online. Students are given time in their schedule to complete work. Courses must be applied for by Feb 28 for fall courses and September 30 for spring courses. All courses receive one semester high school credit. Up-to-date course offerings may be found at:

<https://www.wisconsinvirtualschool.org/courses/high-school-courses.cfm#d636900>

# Academic & Career Planning

ACP or Academic and Career Planning is intended to equip students and their families with the tools necessary to make more informed choices about postsecondary education, training, and careers for life after high school. It is part of Wisconsin Department of Public Instruction's overall vision for every student to graduate high school academically, socially, emotionally, and life ready. The following are components involved in academic and career planning. For more information, see <https://dpi.wi.gov/acp2>.

## 4 Year Course Plan

Course selections based on academic and career goals including highest education desired, career cluster(s) of interest, and career pathway(s) of interest.

## Career/Work Based Learning Experiences

Students in 9th and 10th grade are encouraged to work with their families and the school counselor to explore job shadow or interview opportunities in their areas of interest. Students in 11th and 12th grade may participate in Work Study, Youth Apprenticeship, or job shadowing.

## Virtual ACP Portfolio in Xello

Xello is a software that helps students in grades 6-12 create their very own unique roadmap for future success. This roadmap will enable students to discover their own personal pathway through self-knowledge, exploration, and planning. Built on a proven model for student success, Xello is aligned to Academic and Career Planning ACP. Students complete interactive lessons each year in their virtual portfolio.

<https://xello.mcoutput.com/1366560/Xello%20Scope%20and%20Sequence.pdf>

## Career Clusters & Pathways

There are 16 career clusters in the National Career Clusters Framework, representing more than 79 career pathways to help students navigate their way to greater success in college and career. They help students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college, and career.

The Little Wolf High School Course Catalog along with the career clusters and pathways are ways for students to group their required and elective courses into a coherent sequence in preparation for college and careers. By connecting education to future goals, students are motivated to work harder and enroll in more rigorous courses and meet their future goals. A list of clusters, pathways, and LWHS offered courses follows this section.

[https://cte.careertech.org/sites/default/files/CareerClustersPathways\\_0.pdf](https://cte.careertech.org/sites/default/files/CareerClustersPathways_0.pdf)



## **Extracurricular Activities**

Students can participate in clubs & athletics

## **Assessment Results**

Students take WI Forward Exams, ACT Aspire, PreACT, ACT Plus Writing, & AP Exams

## **Financial Plan**

Students complete Employability Skills/Financial Literacy course in their senior year.

## **Potential Post-Secondary Options**

Technical School, Associate Degree or Certificate, 4-Year College, Trade School, Apprenticeship, Work, Military

This career cluster prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical, and educational services.

### The Seven Pathways

#### Food Products & Processing Systems

Food & Drug Inspector  
 Food & Meat Processor  
 Agricultural Engineer  
 Agricultural Educator  
 Bioengineer  
 Microbiologist  
 Dietician  
 Quality Control Specialist  
 Food Scientist

#### Power, Structural, & Technical Systems

Database Administrator  
 Machine Operator  
 Welder  
 Agricultural Engineer  
 Wastewater Treatment  
 Plant Operator  
 Machinist  
 Farm Equipment  
 Technician

#### Plant Systems

Plant Breeder & Geneticist  
 Soil & Water Specialist  
 Certified Crop Advisor  
 Botanist  
 Horticulturist  
 Education & Extension Specialist  
 Golf Course Superintendent  
 Green House Manager  
 Forest Genetics

#### Natural Resources Systems

Fish & Game Official  
 Geologist  
 Ecologist  
 Logger  
 Park Manager  
 Wildlife Manager  
 Agronomist

#### Animal Systems

Animal Caretaker/Trainer  
 Animal Scientist  
 Equine Manager  
 Dairy Farmer  
 USDA Inspector  
 Veterinarian  
 Veterinary Assistant  
 Animal Nutritionist

#### Environmental Service Systems

Soil Conservationist  
 Chemical Engineer  
 Recycler  
 Hazardous Materials Handler  
 Water Quality Manager  
 Toxicologist  
 Conservation Warden  
 Wildlife Biologist

#### Agribusiness Systems

Dairy Herd Supervisor  
 Farm Manager  
 Bank Loan Office  
 Agricultural Lender  
 Feed Supply Store Manager  
 Agricultural Product Buyer  
 Agricultural Product Distributor

#### LWHS Courses for Supporting Knowledge in Agriculture, Food, & Natural Resource Careers

Agriculture & Science Courses		Technology & Engineering Courses	
Plants, Animals, & You		Intro to Technology	
Food Science		Metals 1	
Leadership		GMAW & SMAW	
Animal Science TC		Furniture & Cabinetry	
Ecology TC		Intro to DC Circuits	
Biology & Biology 2		Engineering	
Chemistry		Robotics	

Additional Courses through WVS, FVTC, & ERVING

## Architecture and Construction

This diverse career cluster prepares learners for careers in designing, planning, managing, building, and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations, and repairs.

### The Three Pathways

#### Construction

Carpenter  
 Construction Engineer  
 Electrician  
 Mason  
 Contractor  
 Drywall Installer  
 Plumber  
 Roofer  
 Safety Director  
 Tile & Marble Setter

#### Design/Pre-Construction

Architect  
 Civil Engineer  
 Drafter  
 Electrical Engineer  
 Industrial Engineer  
 Safety Director  
 Structural Engineer  
 Landscape Architect  
 Interior Designer  
 Fire Protection & Prevention Engineer  
 Surveying & Mapping Technician

#### Maintenance & Operations

Air Conditioning Technician  
 Construction Inspector  
 Equipment & Material Manager  
 Cost Estimator  
 Subcontractor  
 Wastewater Maintenance Technician  
 Hazardous Material Remover  
 Demolition  
 Service Contractor & Field Supervisor

#### LWHS Courses for Supporting Knowledge in Architecture & Construction

##### Agriculture & Science Courses

Plants, Animals, and You  
 Ecology TC  
 Leadership  
 Art Courses  
 Intro to Art  
 Art 3D courses (II-IV)

##### Technology & Engineering Courses

Intro to Technology  
 Metals 1  
 GMAW & SMAW  
 Furniture & Cabinetry  
 Intro to DC Circuits  
 Engineering  
 Robotics

Additional Courses through WVU, FVTC, & ERVING

## Arts, A/V Technology, and Communications Courses

This career cluster prepares learners for designing, producing, exhibiting, performing, writing, or publishing multimedia content. Students will apply artistic talent to practical problems and learn visual arts principles that prepare students with skills and techniques to work in any number of creative design and entertainment fields.

### The Six Pathways

#### Audio & Video Technology & Film

Audio Systems Technician  
 A/V Designer & Engineer  
 Videographer: Special Effects & Animation  
 Video Systems Technician  
 Technical Computer Support Technician  
 Animator  
 Cinematographer  
 Medical & Scientific Illustrator

#### Visual Arts

Painter  
 Sculptor  
 Print Maker  
 Illustrator  
 Cartoonist  
 Fashion Artist  
 Animator  
 Art Director  
 Graphic Designer  
 Commercial Photographer

#### Journalism & Broadcasting

Editor  
 Journalist  
 Producer  
 Publisher  
 Radio & Television Announcer  
 Writer  
 Reporter  
 Design Director  
 Control Room Technician

#### Telecommunications

Office Installer  
 Network Technician  
 Telecommunication

#### Performing Arts

Actor  
 Composer  
 Director  
 Makeup Artist  
 Lighting Director  
 Musician  
 Choreographer  
 Playwright  
 Scenic Designer

#### Printing Technology

Desktop Publishing  
 Job Printer  
 Platemaker  
 Press Operator

### LWHS Courses for Supporting Knowledge in Arts, A/V Technology, & Communications

	Fine Arts Courses		Technology Courses	
	Intro to Art		Intro to Technology	
	Art II 2D & 3D		Intro to DC Circuits/Intro to Programming	
	Art III 2D & 3D		Engineering	
	Art IV		Programming	
	Photography & Graphic Design		Digital Information Technology (WVS)	
	Band		Fashion Design (WVS)	
	Choir		Interior Design (WVS)	
Additional Courses through WVS, FVTC & ERVING				

## Business Management and Administration

The Business Management & Administration Cluster prepares learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service, and communication.

### The Six Pathways

#### Business Financial Management & Accounting

Accountant  
Adjuster  
Auditor  
Bookkeeper  
Billing Specialist  
Price Analyst  
Treasurer  
Accounts Payable Clerk  
Billing Clerk

#### Human Resources

Human Resources Manager  
Compensation & Benefits Manager  
Training & Development Specialist  
Labor & Personnel Specialist  
OSHA/ADA Convention Planner  
Personnel Recruiter

#### Marketing

Marketing Manager  
Store Manager  
Customer Service Supervisor  
Retail Salesperson  
Wholesale or Retail Buyer  
Public Relations Specialist  
Advertising Agent  
Telemarketer

#### Management

Entrepreneur  
General Manager  
Public Relations Manager  
Risk Manager  
Advertising Account Executive  
Health Care Administrator  
Small Business Owner

#### Business Analysis

Budget Analyst  
Compensation Analyst  
Cost Analyst  
Database Business Analyst  
Investment Analyst  
Marketing Analyst

#### Administration & Information Support

Administrative Assistant  
Executive Assistant  
Office Manager  
Desktop Publisher  
Customer Service Assistant  
Data Entry Specialist  
Receptionist

#### LWHS Courses for Supporting Knowledge in Business Management & Administration

##### Business & Information Technology Classes

Computer Science Principles (WVS)

Digital Information Technology (WVS)

Entrepreneurship (WVS)

Photography & Graphic Design

Web Design (WVS)

Accounting (FVTC)

Additional Courses through WVS, FVTC, & ERVING

## Education and Training

This diverse Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services. Millions of learners each year train for careers in education and training in a variety of settings that offer academic instruction, career technical instruction, and other education and training services.

### The Three Pathways

#### Teaching & Training

Preschool or Kindergarten Teacher, Aide  
 Elementary Teacher, Aide  
 Secondary Teacher, Aide  
 Special Education Teacher, Aide  
 College/University Lecturer/Professor  
 Management Development Trainer  
 Human Resource Trainer  
 Coach  
 Child Care Director

#### Professional Support Services

Psychologist-Clinical, Developmental, Social  
 Social Worker  
 Parent Educator  
 Counselor  
 Speech-Language Pathologist  
 Audiologist

#### Admin & Admin Support

Superintendent  
 Principal  
 Director of Training  
 Librarian  
 Instructional Coordinator  
 Educational Researcher  
 College President or Dean  
 Curriculum Developer  
 Instructional Media Designer

<b>LWHS Courses for Supporting Knowledge in Education &amp; Training</b>			
	<b>Social Studies Courses</b>		<b>Other Elective Courses</b>
	Sociology		Sports Officiating
	AP Psychology		Intro to Teaching (ERVING & UWRF)
	Teacher Aide		Exception Child (ERVING & UWRF)
	Child Development (WVS)		
	Early Childhood Education (WVS)		
	Real-World Parenting (WVS)		
Additional Courses through WVS, FVTC, & ERVING			

## Finance

The Finance Cluster prepares learners for careers in investment planning, banking, insurance, and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service, and good number sense.

### The Four Pathways

#### Financial & Investment Planning

Personal Financial Advisor  
 Tax Preparer  
 Sales Agent for Securities & Commodities  
 Investment Advisors  
 Brokerage Clerk  
 Development Officer

#### Business Financial Management

Accountant  
 Financial Analyst  
 Controller  
 Chief Revenue Agent  
 Auditor  
 Economist  
 Tax Examiner  
 Collector  
 Revenue Agent

#### Banking & Related Services

Loan Officer  
 Bill & Account Collector  
 Teller  
 Loan Processor  
 Real Estate Appraiser  
 Internal Auditor  
 Title Researcher & Examiner  
 Debt Counselor

#### Insurance Services

Claims Agent  
 Examiner  
 Claims Clerk  
 Insurance Appraiser  
 Underwriter  
 Actuary  
 Sales Agent  
 Customer Service Agent  
 Processing Clerk

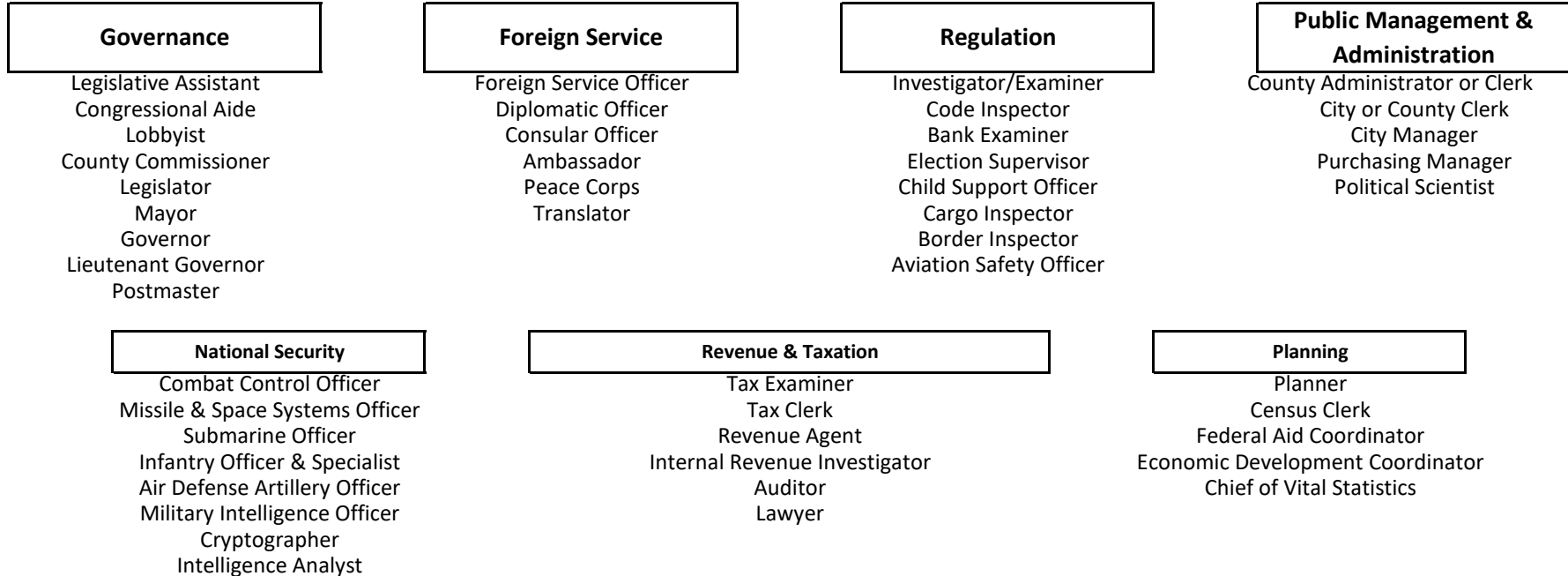
#### LWHS Courses for Supporting Knowledge in Finance

Business & Information Technology Courses	Social Studies Courses
Entrepreneurship (WVS)	Economics
Computer Science Principles (WVS)	AP Psychology
Digital Information Technology (WVS)	
International Business (WVS)	
Finance (WVS)	<b>Math Courses</b>
Accounting (ERVING)	AP Calculus
Personal Finance (ERVING-UWO)	Statistics
Additional Courses through WVS, FVTC. & ERVING	

## Government and Public Administration

Government affects Americans in countless ways. In a democratic society, government is the means of expressing the public will. There are some activities that are unique to government. The federal government defends us from foreign aggression; represents American interests abroad; deliberates, passes, and enforces laws; and administers different programs. State and local governments pass laws or ordinances and provide vital services to constituents. There are many opportunities in government in every career area. This cluster focuses on careers that are unique in government and not contained in another Cluster.

### The Seven Pathways



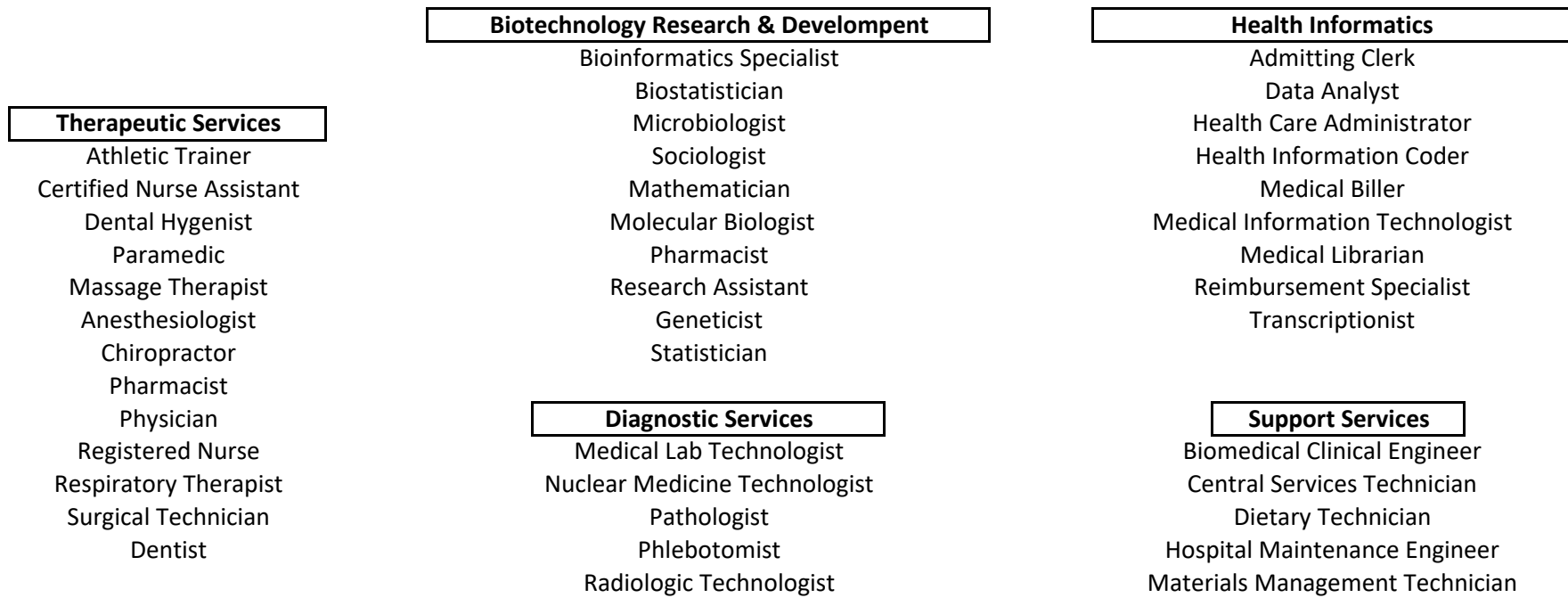
<b>LWHS Courses for Supporting Knowledge in Government &amp; Public Administration</b>
<b>Social Studies Courses</b>
Economics
Sociology
US History
Government
AP Psychology
World History
World Geography (WVS)
Additional Courses through WVS, FVTC, & ERVING



## Health Science

The Health Science Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treating injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, sports arenas, space centers, or within the community.

**The Five Pathways**



<b>LWHS Courses for Supporting Knowledge in Health Science</b>	
<b>Science Courses</b>	<b>Social Studies Courses</b>
Biology & Biology II	Economics
Chemistry & AP Chemistry	AP Psychology
Physical Science	Sociology
Physics	<b>Math Courses</b>
Human Biology	AP Calculus
AP Biology (WVS)	Statistics
Additional Courses through WVS, FVTC, & ERVING	

## Hospitality and Tourism

The Hospitality & Tourism Cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreational events and travel-related services. Hospitality operations are located in communities throughout the world.

### The Four Pathways

#### Restaurant & Food/Beverage Services

Food & Beverage Manager  
Catering & Banquets Manager  
Restaurant Owner  
Executive Chef  
Cook  
Bartender & Server  
Banquet Setup Attendant

#### Lodging

Front Office Manager  
Executive Housekeeper  
Director of Sales & Marketing  
Director of Operations  
Front Desk Supervisor  
Sales Professional

#### Travel & Tourism

Event Planner  
Convention Services Manager  
Interpreter  
Heritage Tourism Developer  
Tour Operator/Guide/Agent  
Tourism Marketing Specialist

#### Recreation, Amusements, and Attractions

Club Manager  
Membership Director  
Parks Director  
Resort Instructor  
Promotional Developer  
Park Ranger  
Zookeeper  
Recreation Director

#### LWHS Courses for Supporting Knowledge in Hospitality & Tourism

Business & Information Technology Courses	Agriculture Courses
Entrepreneurship (WVS)	Plants, Animals, and You
Computer Science Principles (TVS)	Food Science
Web Design (WVS)	Leadership
Marketing (WVS)	
Additional Courses through WVS, FVTC, & ERVING	

## Human Services

The Human Services Career Cluster prepares learners for employment in career pathways that relate to serving families and human needs.

### The Five Pathways

#### Consumer Services

Consumer Affairs Officer  
 Financial Counselor  
 Consumer Research Department Representative  
 Investment Advisor  
 Employee Benefits Representative  
 Market Researcher

#### Early Childhood Development & Services

Director, Childcare Facility  
 Childcare Assistant/Worker  
 Parent Educator  
 Nanny  
 Preschool Teacher/Assistant

#### Family & Community Services

Community Service Director  
 Volunteer Coordinator  
 Director, Religious Activities/Education Programs  
 Emergency Relief Worker  
 Grief Counselor  
 Social Services Worker

#### Counseling & Mental Health Services

Career Counselor  
 Clinical/Counseling Psychologist  
 Marriage, Child, & Family Counselor  
 Mental Health Counselor  
 Rehabilitation Counselor  
 School Counselor  
 Substance Abuse Counselor

#### Personal Care Services

Cosmetologist  
 Funeral Attendant/Director  
 Nail Technician  
 Personal Trainer  
 Skin Care Specialist

### LWHS Courses for Supporting Knowledge in Human Services

Agriculture & Science Courses	Social Studies Courses
Leadership	Sociology
Biology	AP Psychology
Biology II	Teacher Assistant
Human Biology	Developmental Psychology (FVTC)
<b>Art Courses</b>	Real-World Parenting (WVS)
Intro to Art	Finance
Art 2D & 3D	
Additional Courses through WVS, FVTC, & ERVING	

## Information Technology

Building Linkages in Information Technology Framework, learners will gain skills in the design, development, support, and management of hardware, software, multimedia and systems integration services.

### The Four Pathways

#### Network Systems

Network Administrator  
 Network Technician  
 Telecommunications Network Technician  
 Data Communications Analyst  
 Security Administrator

#### Information Support Services

Database Administrator  
 Enterprise Systems Engineer  
 Help Desk Specialist  
 Technical Support Engineer  
 Technical Writer  
 Instructional Designer  
 Application Integrator

#### Programming & Software Development

Software Applications Architect  
 Applications Engineer  
 Computer Programmer  
 Game Programmer  
 Operating Systems Design/Engineer

#### Interactive Media

Web Designer  
 Webmaster  
 3D Animator  
 Virtual Reality Specialist  
 Multimedia Producer  
 Graphic Artist

### LWHS Courses for Supporting Knowledge in Information Technology

Technology & Engineering Courses	Social Studies Courses
Intro to DC Circuits/Intro to Programming	Sociology
Engineering	AP Psychology
Programming	
Robotics	<b>Computer/Business Classes</b>
<b>Art Courses</b>	Computer Science Principles (WVS)
Intro to Art	Digital Information Technology (WVS)
Art 2D & 3D	Web Design & Game Design (WVS)
Photography & Graphic Design	AP Computer Science (ERVING)
Additional Courses through WVS, FVTC, & ERVING	

## Law, Public Safety, Corrections, and Security

The Law, Public Safety, Corrections, & Security Career Cluster helps prepare learners for careers in planning, providing, and managing legal, public safety, protective services, and homeland security, including professional and technical support services.

### The Five Pathways

#### Security & Protective Services

Security Director  
 Security Systems Designer  
 Information Systems Security Specialist  
 Computer Forensics Specialist  
 Loss Prevention Specialist  
 Security Systems Technician  
 Security Officer

#### Legal Services

Judge  
 Attorney  
 Legal Assistant  
 Law Clerk  
 Case Management Specialist

#### Correction Services

Warden/Jail Administrator  
 Public Information Officer  
 Case Manager  
 Correctional Officer  
 Probation/Parole Officer  
 Youth Services Worker

#### Law Enforcement Services

Criminal Investigator  
 Immigrations & Customs Inspector  
 Federal Marshall  
 Police Detective  
 Police Officer/Sheriff Deputy  
 Police/Fire/Ambulance Dispatcher  
 Evidence Technician

#### Emergency & Fire Management Services

Emergency Mgmt & Response Coordinator  
 Emergency Medical Technician  
 Fire Fighter  
 Hazardous Materials Responder  
 Training Officer

### LWHS Courses for Supporting Knowledge in Law, Public Safety, Corrections, & Security

Science Courses	Social Studies Courses
Biology & Biology II	Sociology
Chemistry	AP Psychology
Human Biology	Developmental Psychology
	Careers in Criminal Justice (WVS)
Agriculture Course	Criminology (WVS)
Leadership	Forensic Science (WVS)
Additional Courses through WVS, FVTC, & ERVING	

# Manufacturing

This diverse Career Cluster prepares learners for careers in planning, managing, and performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

## The Six Pathways

### Manufacturing Production Process & Development

Design Engineer  
Industrial Engineer  
Labor Relations Manager  
Manufacturing Engineer  
Precision Inspector, Tester, & Grader  
Process Improvement Technician  
Production Manager

### Production

Assemblers  
Automated Manufacturing Technician  
Calibration Technician  
Electromechanical Equipment Assemblers/Operators  
Tool & Die Maker

### Maintenance, Installation & Repair

Biomedical Equipment Technician  
Communication System Installer/Repair  
Instrument Control Technician  
Laser System Technician  
Security System Installer/Repair

### Quality Assurance

Calibration Technician  
Inspector  
Lab Technician  
Process Control Technician  
Quality Control Technician  
Quality Engineer

### Logistics & Inventory Control

Dispatcher  
Freight, Stock & Material Mover  
Industrial Truck & Tractor Operator  
Logistical Engineer  
Material Handler  
Process Improvement Technician  
Traffic Manager

### Health, Safety, & Environmental Assurance

Environmental Engineer  
Health & Safety Coordinator  
Safety Engineer  
Safety Technician

### LWHS Courses for Supporting Knowledge in Manufacturing

Technology & Engineering Courses	Social Studies Courses
Intro to Technology	Sociology
Metals I	AP Psychology
Furniture & Cabinetry	<b>Business &amp; Information Technology Courses</b>
GMAW/SMAW	Computer Science Principles (WVS)
Intro to DC Circuits/Intro to Programming	Biotechnology (WVS)
Engineering	Manufacturing: Production Design & Innovation
Robotics	
Additional Courses through WVS, FVTC, & ERVING	

## Marketing, Sales, and Service

The Marketing, Sales, & Service Career Cluster prepares learners for careers in planning, managing, and performing marketing activities to reach organizational objectives.

### The Seven Pathways

#### Management & Entrepreneurship

Chief Executive Officer  
 Entrepreneur  
 Independent Distributor  
 Small Business Owner

#### Professional Sales & Marketing

Account Executive  
 Broker  
 Regional Sales Manager  
 Sales Executive  
 Technical Sales Specialist

#### Buying & Merchandising

Clerk  
 Merchandise Buyer  
 Merchandising Manager  
 Operations Manager  
 Retail Marketing Coordinator  
 Sales Associate  
 Store Manager

#### Marketing Communication & Promotion

Advertising Manager  
 Art/Graphics Director  
 Creative Director  
 Interactive Media Specialist  
 Public Relations Manager  
 Sales Representative

#### Marketing Information & Research

Brand Manager  
 Database Manager  
 Director of Market Development  
 Product Planner  
 Research Associate  
 Strategic Planner

#### Distribution & Logistics

Distribution Coordinator  
 Inventory Manager/Analyst  
 Logistics Analyst/Engineer  
 Materials Manager  
 Shipping/Receiving Administrator  
 Shipping/Receiving Clerk  
 Warehouse Manager

#### E-Marketing

Copywriter/Designer  
 Customer Support Specialist  
 E-Commerce Director  
 E-Merchandising Manager  
 Fulfillment Manager  
 Online Market Researcher

LWHS Courses for Supporting Knowledge in Agriculture, Food, & Natural Resource Careers	
Agriculture Courses	Social Studies Courses
Leadership	Sociology
Art Courses	AP Psychology
Intro to Art	Business & Information Technology Courses
Art 2D & 3D	Entrepreneurship (WVS)
Photography & Graphic Design	Advertising & Sales (WVS)
	Media & Communications (WVS)
Additional Courses through WVS, FVTC, & ERVING	

## Science, Technology, Engineering, and Mathematics

A career in Science, Technology, Engineering, or Mathematics is exciting, challenging, and ever-changing. Learners who pursue one of these career fields will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

### The Two Pathways

#### Science & Mathematics

Biologist  
 Chemist  
 Geneticist  
 Physicist  
 Mathematician  
 Statistician  
 Research Technician  
 Science Teacher  
 Lab Technician

#### Engineering & Technology

Aeronautical Engineer  
 Architectural Engineer  
 Biotechnology Engineer  
 Chemical Engineer  
 Civil Engineer  
 Construction Engineer  
 Industrial Engineer  
 Mechanical Engineer  
 Materials Lab & Supply Technician  
 Quality Technician

<b>LWHS Courses for Supporting Knowledge in Science, Technology, Engineering, &amp; Mathematics</b>			
<b>Math Courses</b>		<b>Science Courses</b>	<b>Technology/Engineering Courses</b>
Algebra		Biology & Biology II	Intro to Technology
Geometry		Physical Science	Metals 1
Advanced Algebra		Chemistry	Furniture & Cabinetry
Precalculus		Ecology TC	Intro to DC Circuits/Programing
AP Calculus		Physics	Engineering
Statistics		AP Chemistry	Programming
		AP Biology	Robotics
			AP Computer Science
Additional Courses through WVS, FVTC, ERVING			



## Transportation, Distribution, and Logistics

The Transportation, Distribution, & Logistics Career Cluster exposes learners to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

### The Six Pathways

#### Transportation Operations

Transportation Managers  
 Pilots  
 Locomotive Engineers  
 Flight Engineers & Attendants  
 Truck & Bus Drivers  
 Air Traffic Controllers  
 Ship & Boat Captains  
 Aircraft Cargo Handling Supervisors

#### Logistics Planning & Management

Logistician  
 Logistics Manager  
 Logistics Engineer  
 International Logistic Specialist

#### Facility & Mobile Equipment Maintenance

Industrial Equipment Mechanic  
 Electrician & Technician  
 Facility Maintenance Manager/Engineer  
 Mobile Equipment Maintenance Technician  
 Diesel Engine Specialist

#### Warehousing & Distribution Center Operations

Storage & Distribution Manager  
 Warehouse Manager  
 Industrial & Packaging Engineer  
 Shipping & Receiving Supervisor  
 Production, Planning, & Expediting Clerk  
 Freight Material Mover & Supervisor

#### Sales & Service

Reservation & Travel Agent  
 Cargo & Freight Agent  
 Customer Service Manager & Representative  
 Customer Order Supervisor  
 Billing Supervisor

#### Transportation Systems/Infrastructure Planning, Management & Regulation

Traffic Control  
 Urban & Regional Planner  
 Vehicle & System Inspector  
 Federal, State, & Local Transportation Agency  
 Manager

#### LWHS Courses for Supporting Knowledge in Transportation, Distribution & Logistics

Technology & Engineering Courses	Social Studies Courses
Intro to Technology	Economics
Furniture & Cabinetry	AP Psychology
Metals 1	Sociology
GMAW/SMAW	Manufacturing (WVS)
Intro to DC Circuits/Intro to Programming	International Business & Commerce (WVS)
Engineering	Computer Science Principles (WVS)
Robotics	
Additional Courses through WVS, FVTC, ERVING	