

2022-23 CURRICULUM HANDBOOK

Amherst High School

School District of the Tomorrow River

If you have questions, please feel free to contact  
Principal Mike Klieforth or  
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# 2022-23 CURRICULUM HANDBOOK

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## GRADUATION REQUIREMENTS

State law and the board of education establish minimum requirements for graduation from Amherst High School.

<b>English</b>	<b>4 credits</b> – to include English 9 or ELC 9; English 10 or ELC 10; English 11, ELC 11, or Honors ELC 11; and English 12, ELC 12, or AP Lit and Comp.
<b>Social Studies</b>	<b>3.5 credits</b> – to include Social Studies 9, US History I, US History II, Economics or AP Microeconomics, and Sociology.
<b>Mathematics</b>	<b>3 credits</b> – to include one credit of Algebra.
<b>Science</b>	<b>3 credits</b> – to include Intro to Physics and Biology.
<b>Physical Education</b>	<b>2 credits</b> – to include any combination of Phy Ed department offerings (Athletic Development, Dual/Individual Sports, Fit Life, and/or Team Sports). Courses may be chosen more than once.
<b>Health</b>	<b>.5 credit</b>
<b>Career and Technical Ed</b>	<b>2 credits</b> – to include any courses offered in Agriculture, Business Education, Family and Consumer Science, or Technology Education. Please note that Independent Living 12 is required for graduation.
<b>Humanities</b>	<b>1 credit</b> – to include any elective courses offered in Art, Music, Foreign Language, Social Studies, and select English courses beyond the completion of the required English courses.

### **A total of 27 credits are required to graduate from Amherst High School.**

Note: For Juniors or Seniors who transfer to Amherst High School, we will honor the TOTAL graduation credit requirements from your previous high school due to our block schedule.

### **Non-Discrimination Policy - Title IX**

*The Tomorrow River School District is committed to providing equal education and employment opportunity regardless of sex, marital or parental status, race, color, religion, age or national origin. Title IX of the Educational Amendments of 1972 prohibits discrimination on the basis of sex for any grant, contract or loan. Title IX of the Civil Rights Act of 1964 is similar in its prohibition of discrimination on the basis of race, color, or natural origin. Equal educational opportunity includes admission, recruitment, extra-curricular programs and activities, housing facilities, access to course offerings, counseling and testing, financial assistance, employment, health and insurance services and athletics. The Tomorrow River School District is also committed to equal opportunities for physically or mentally handicapped, in compliance with federal regulations. Responsibility for equal employment and educational opportunities throughout the school system rests with the superintendent. All grievances, questions or requests for information should be referred to the superintendent's office of the Tomorrow River Schools.*

## SPECIAL PROGRAMS AND OPPORTUNITIES

### 1. Dual Credit

Amherst High School works with the [MSTC dual credit program](#) and other Technical Colleges in Wisconsin to offer college-level credit while students are still in high school. Students will earn high school and college credit for these courses. In this handbook, all dual credit courses are marked with an asterisk (\*) and are identified with the Technical College that offers the course. Keep in mind these classes are taught with college-level curriculum and are meant to be rigorous.

### 2. Advanced Placement

The Advanced Placement Program through the College Board provides the opportunity for high school students to learn rigorous material and test out of college-level courses. Students will take the AP exam in spring of the current school year. Based on the score received, college/universities may give the student college credit for that course. (Note: There is a fee for the student to take these tests.) All Advanced Placement courses in this handbook are marked with a plus (+) sign.

### 3. [Early College Credit Program \(ECCP\)](#)

ECCP is an opportunity for Wisconsin high school students to take up to two courses at Wisconsin public or private colleges or universities or tribally-controlled colleges that are not offered at AHS. Under the ECCP program, the costs of the courses are shared among the school district, the state, and in some cases, the student's family.

The deadline for signing up to take an ECCP course in the Spring semester is  
October 1 of the previous calendar year.

The deadline for signing up to take an ECCP course in the Fall semester is  
March 1 of the previous school year.

### 4. [Start College Now Program \(SCN\)](#)

Start College Now allows students to enroll in college-level courses at a Wisconsin Technical College. The school district will pay for a maximum of two courses per student for any class not offered at AHS. To be eligible to participate in Start College Now, students must have completed 10th grade and be in good academic standing with an acceptable disciplinary record.

The deadline for signing up to take a Start College Now course in the Spring semester is  
October 1 of the previous calendar year.

The deadline for signing up to take a Start College Now course in the Fall semester is  
March 1 of the previous school year.

## COURSE LISTS BY DEPARTMENT

Please note that this is a list of possible courses offered by Amherst High School.  
Due to teacher availability and course sizes, not all elective classes will run in a given school year.

### AGRICULTURE

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Exploring Agriscience	9-12	No	.5	No
Outdoor Recreation	9-12	No	.5	No
Small Animals	9-12	No	.5	No
FFA Leadership	10-12	No	.5	FFA member; Sophomore
Advanced FFA Leadership	11-12	No	.5	FFA Leadership; Junior
Fisheries and Wildlife Resources *	10-12	No	.5	Sophomore
Forestry	10-12	No	.5	Sophomore
Greenhouse Management *	11-12	No	1.0	Junior
Landscape/Floral Design (2022-23)	9-12	No	.5	No
Agribusiness Management (2022-23)	10-12	No	.5	Sophomore
Food Science (2022-23) *	10-12	No	.5	Sophomore
Global Agriculture (2022-23)	10-12	No	.5	Sophomore
Soil Science (2022-23)	10-12	No	.5	Sophomore
Animal Science (2022-23)	11-12	No	.5	Junior
Genetics/Biotechnology (2022-23)	11-12	No	.5	One previous Ag course; Junior
Food for Today (2023-24)	9-12	No	.5	No
Aquaponics (2023-24)	10-12	No	.5	Sophomore
Veterinary Science (2023-24)	11-12	No	1.0	One previous Ag course; Junior

### ART

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Intro to Drawing	9-12	No	.5	No
Intro to Painting	9-12	No	.5	No
Intermediate Drawing/Painting I	9-12	No	.5	Intro to Drawing
Intermediate Drawing/Painting II	9-12	No	.5	Intro to Painting
Advanced Art	11-12	No	.5	Junior; see course description
Printmaking (2022-23)	9-12	No	.5	No
Ceramics (2022-23)	10-12	No	.5	Sophomore
Intro to Sculpture (2023-24)	9-12	No	.5	No
Metals & Glass (2023-24)	10-12	No	.5	Sophomore
AP Art History (2023-24) +	11-12	No	1.0	Junior

### BUSINESS EDUCATION

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Intro to Business	9-12	No	.5	No
Marketing	9-12	No	.5	No
Accounting I *	11-12	No	1.0	Junior
Business and Personal Law	11-12	No	.5	Junior
Microsoft Office Introduction *	11-12	No	.5	Junior
Personal Finance	11-12	No	.5	Junior
AP Microeconomics + (will satisfy the Econ graduation requirement)	11-12	No	1.0	Junior

## COLLEGE AND CAREER READINESS

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
PSCDS (Personal, School & Career Devel Skills)	9-12	No	.5	Instructor approval
Career Planning 11	11	Yes	.5	Junior
Work Release	11-12	No	.5	Junior; see course description
Youth Apprenticeship Program	11-12	No	max 4	Junior

## ENGLISH

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
English 9 or ELC 9	9	Yes	1.0	No
English 10 or ELC 10	10	Yes	1.0	Sophomore
English 11 or ELC 11	11	Yes	1.0	Junior
Honors ELC 11	11	No	1.0	Junior
English 12 or ELC 12	12	Yes	1.0	Senior
Challenged Books	9-12	No	.5	None
Creative Non-Fiction	9-12	No	.5	None
Dramatic Literature	9-12	No	.5	None
Graphic Novels	9-12	No	.5	None
Poetry	9-12	No	.5	None
Shakespeare	9-12	No	.5	None
College Composition *	11-12	No	.5	Junior
Oral Communications *	11-12	No	.5	Junior
Speech *	11-12	No	.5	Junior
AP Literature and Composition +	12	No	1.0	Senior
Creative Writing (2023-24)	9-12	No	.5	None
Mystery / Crime Lit (2023-24)	9-12	No	.5	None
Mythology (2023-24)	9-12	No	.5	None
Readers Workshop (2023-24)	9-12	No	.5	None
Digital Journalism (2023-24)	10-12	No	.5	Sophomore

## FAMILY AND CONSUMER SCIENCE

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Beginning Foods	9-12	No	.5	No
Hobbies and Crafts	9-12	No	.5	No
Foods and Wellness	9-12	No	.5	Beg Foods
Essential Concepts for Health and Wellness *	10-12	No	.5	Sophomore
Food Culture	10-12	No	.5	Beg Foods; Sophomore
Mental Wellness and Stress Management *	10-12	No	.5	Sophomore
Parenting Today	10-12	No	.5	Sophomore
Food Service	11-12	No	.5	Foods/Well or Food Culture; Junior
Independent Living 12 (includes a financial literacy component)	12	Yes	.5	Senior
Principles of Baking & Pastry (2023-24)	10-12	No	.5	Foods/Well or Food Culture; Soph

## HEALTH

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Health	9	Yes	.5	None

## MATHEMATICS

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Pre-Algebra	9-12		1.0	No
Algebra I	9-12		1.0	No
Tech Math & Geometry Concepts *	11-12		1.0	Algebra I
Geometry	10-12		1.0	Algebra I
College Algebra with Applications *	11-12		1.0	Algebra I
Algebra II	10-12		1.0	Algebra I, Geometry
Pre-Calculus/Trigonometry	11-12		1.0	Geometry, Algebra II
AP Calculus AB +	11-12		1.0	Pre-Calculus/Trig
AP Statistics +	11-12		1.0	Algebra II, Geometry

## MEDIA

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Media	9-12	No	.5	None
Photo Journalism	9-12	No	.5	None
Podcasting	9-12	No	.5	Media
Web & Graphic Design	10-12	No	.5	Media; Photo Journalism
Yearbook	10-12	No	.5/sem	Sophomore

## MUSIC

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Band	9-12	No	.5/sem	No
Choir	9-12	No	.5/sem	No
Band & Choir	9-12	No	1/sem	No

## PHYSICAL EDUCATION

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
PE: Team Sports	9-12		.5	None
PE: Dual/Individual Sports	9-12		.5	None
PE: Fitness in LIFE	9-12		.5	None
PE: Strength & Conditioning	9-12		.5	None

*Note that students must complete two (2) credits of Phy Ed to graduate.*

*Students can choose any combination of the above classes, and classes can be repeated.*

*Once graduation requirements are met, students can take these classes as electives.*

Weight Training	9-12	No	.5/sem	Freshman
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## SCIENCE

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Intro to Physics	9	Yes	1.0	No
Biology	10	Yes	1.0	Sophomore or instructor approval
Earth Science	10-12	No	1.0	Intro to Physics, Intro to Chem
Forensic Science	10-12	No	1.0	Biology
Advanced Biology	10-12	No	1.0	Biology
Chemistry	11-12	No	1.0	Intro to Physics, Intro to Chem; Junior
Physics	11-12	No	1.0	Intro to Physics, Intro to Chem; Junior
Anatomy/Physiology	11-12	No	1.0	Junior
Medical Terminology and Health Science *	11-12	No	1.0	Junior

## SOCIAL STUDIES

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Social Studies 9	9	Yes	.5	No
History in Movies	9-12	No	.5	No
Local History	9-12	No	.5	No
World War II History	9-12	No	.5	No
Psychology	9-12	No	.5	No
US History I	10	Yes	1.0	Social Studies 9
AP Psychology +	10-12	No	1.0	Sophomore
US History II	11	Yes	1.0	US History I
Honors US History +	11-12	No	1.0	Junior
Economics	12	Yes	.5	Senior; can be substituted for AP Microeconomics
Sociology	12	Yes	.5	Senior

## SPANISH

(must be taken in order)

	<b>Grade Level</b>	<b>Req'd Course?</b>	<b># of Credits</b>	<b>Are there Prerequisites?</b>
Spanish I	9-12	No	1.0	No
Spanish II	9-12	No	1.0	Spanish I
Spanish III	10-12	No	1.0	Spanish II
Spanish IV	10-12	No	1.0	Spanish III

## TECHNOLOGY EDUCATION

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
Woodworking	9-12	No	.5	No
Advanced Woodworking	10-12	No	.5	Woodworking
Construction Systems	9-12	No	.5	No
Advanced Construction *	10-12	No	.5	Const Systems or Arch Systems II
Intro to Metals	9-12	No	.5	No
Advanced Metals	10-12	No	.5	Intro to Metals
Metal Fabrication	10-12	No	.5	Adv Metals
Architecture Systems I	9-12	No	.5	No
Architecture Systems II	10-12	No	.5	Arch Systems I or instructor approval
Intro to Tech Ed	9-12	No	.5	No
Intro to Robotics and Automation	9-12	No	.5	No
Creative Metals	9-12	No	.5	No
Media Tech	9-12	No	.5	No
Small Engines	9-12	No	.5	No
Intro to Electronics/Electricity *	10-12	No	.5	No
Intro to Drafting *	10-12	No	.5	No
Intro to Engineering *	10-12	No	.5	No

## DISTANCE LEARNING THROUGH CESA 10

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
<i>Note: Classes are live and meet at a specific time</i>				
<u>Computer Science</u>				
Computer Hardware Fundamentals *	10-12	No	1.0	No
Game and App Programming	10-12	No	1.0	No
<u>Languages</u>				
American Sign Language (ASL) 1 *	10-12	No	1.0	No
American Sign Language (ASL) 2 *	10-12	No	1.0	No

## WISCONSIN VIRTUAL SCHOOL

	Grade Level	Req'd Course?	# of Credits	Are there Prerequisites?
<i>Note: Classes can be taken during any open period</i>				
<u>Art/Music/Theater</u>				
Theater, Cinema, and Film Production	10-12	No	.5	No
<u>Computer Science</u>				
Computer Science Principals	10-12	No	.5	No
Game Design	10-12	No	.5	No
<u>English</u>				
Gothic Literature	10-12	No	.5	No
<u>Mathematics</u>				
AP Calculus BC +	10-12	No	1.0	AP Calculus AB
<u>Media</u>				
Journalism	10-12	No	.5	No
<u>Miscellaneous</u>				
Criminology	10-12	No	.5	No
Music Appreciation	10-12	No	.5	No
Sports Officiating	10-12	No	.5	No
<u>Science/Health</u>				
Child Development	10-12	No	.5	No
Early Childhood Education	10-12	No	.5	No
Health Science I: The Whole Individual	10-12	No	.5	No
Health Science II: Patient Care & Medical Services	10-12	No	.5	No
Marine Science	11-12	No	1.0	Biology

# AGRICULTURE

## Exploring Agriscience

**Credit:** .5

**Prerequisites:** None

**Required:** No

Exploring Agriscience will introduce students to the diverse world of agriculture. Today, agriculture provides the food we eat, the clothes we wear, and the jobs that many people have. Students will explore animals, plants, food technology, careers, and leadership through hands-on activities and group settings. Students will work on a term-long supervised agricultural experience, which will carry over to future agriculture classes. Any students interested in taking Ag classes should start with this course to set a good foundation.

## Outdoor Recreation

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Fee:** \$10 for each certification; \$12 for trapper education

**Offered during Fall Semester (2023-24)**

Outdoor Recreation will allow students the opportunity to become certified in many environmental management and education fields. Students will be involved in numerous projects, including ATV safety certification, snowmobile safety certification, boating safety, trapper education, and hunter safety. For anyone who enjoys spending time outdoors, this is the class for you. This course will also address FFA and supervised agricultural experiences. If currently certified, this course will be a review for the student.

## Small Animals

**Credit:** .5

**Prerequisites:** None

**Required:** No

This course deals with a variety of subjects on small animals, ranging from careers in small animals, dogs, cats, birds, reptiles, fish, and may include hamsters, mice, rats, ferrets, guinea pigs, and chinchillas. This will be a classroom course with projects focusing on specific interests on small animals.

## FFA Leadership

**Credit:** .5

**Prerequisites:** FFA member; Sophomore standing

**Required:** No

**Note:** This class meets during third hour.

This course is designed for Sophomore, Junior, or Senior FFA students. Leadership training will be essential to complete the FFA program of work. Students will be working toward awards for State and National recognition, including Chapter Awards and individual awards such as Proficiencies and State FFA Degrees.

## Advanced FFA Leadership

**Credit:** .5

**Prerequisites:** FFA Leadership

**Required:** No

**Note:** This class meets during third hour.

This course is designed for students who have successfully completed FFA Leadership. The course will be run at the same time as FFA Leadership. Students will update their previous proficiency as well as work on a new one and apply for the State FFA Degree. This course will include FFA duties and Chapter Awards.

## Fisheries and Wildlife Resources \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Sophomore standing

**Required:** No

**Fee:** \$10 for supplies to create custom fishing rod

In this course, students will learn about wildlife animals and fish species, how to track wildlife, how to score deer, and identifying animals by their skulls. We will also be looking into raising and managing game animals. One of the hands-on activities/labs focus on custom fishing rod building. We will visit a local taxidermy shop and fishery for a field trip. This course is offered for science credit and will earn credit at MidState if it is taken during the same school year as Forestry.

## **Forestry**

**Credit: .5 (Amherst)**

**Required: No**

**Prerequisites: Sophomore standing**

**Fee: \$10 for supplies to create custom fishing rod**

In the forestry portion, you will gain a wide range of knowledge about trees, including the history of Wisconsin forestry, tools used, how to measure and identify trees, career options, and the science behind the trees themselves. This class includes many hands-on activities and we will spend a lot of time outside and help teach students during the annual School Forest Field Trip.

## **Greenhouse Management \***

**Credit: 1.0 (Amherst); 3 (MSTC)**

**Required: No**

**Prerequisites: Junior standing**

This course, which is offered for science credit, is designed for any Junior or Senior student. The study of horticulture emphasizes careers in areas of the growth of plants including fruits, vegetables, ornamentals and greenhouse management. This is a classroom and lab course with the majority of time spent in the greenhouse raising marketable plants with outdoor classroom time working with various plant materials. FFA projects in this area will be encouraged. The emphasis will be on greenhouse management, producing, pricing and selling a product. Other units include landscaping, lawn care, gardening, and growing small fruits.

## **Landscape and Floral Design**

**Credit: .5**

**Required: No**

**Prerequisites: None**

**Offered every other year (2022-23)**

This course is designed to provide students with instruction in many aspects of the landscape industry, including safety, plant identification, analyzing the landscape site, designing the landscape, selecting plants for the design, hardscaping, turf installation and management, pruning, and integrated pest management. It also covers the principles of floral art with an emphasis on commercial design. The study of the general principles of plants, and their life processes and morphology are also covered.

## **Agribusiness Management**

**Credit: .5**

**Required: No**

**Prerequisites: Sophomore standing**

**Offered every other year (2022-23)**

This course is for anyone interested in running their own agribusiness in the future. Topics will include economic principles in running an agribusiness, such as Fixed and Variable Costs, Diminishing Returns, Supply and Demand, and much more. This class applies math to situations that you will use in agribusiness. Students will understand what makes a business succeed and fail. This course will also address FFA and Supervised Agricultural Experiences.

## **Food Science \***

**Credit: .5 (Amherst); 3 (MSTC)**

**Required: No**

**Prerequisites: Sophomore standing**

**Fee: \$15; Offered every other year (2022-23)**

Food Science and safety will teach students about the science and safety behind the food we eat each day. Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food, chemistry, food processing, food product development, and marketing. Labs include making beef jerky, candy, root beer, and more.

## Global Agriculture

**Credit:** .5

**Required:** No

**Prerequisites:** Sophomore standing  
**Offered every other year (2022-23)**

Ever wonder why there are perpetual shortages of food in some parts of the world, while tons of tasty, healthy chow goes to waste every day in the United States? Ever wonder what you could really do about it? In this class, you'll gain an understanding of the political, economic, social, and natural factors that interactively affect agricultural production and distribution everywhere on the planet. In this class, you will work toward developing solutions to agricultural issues through service-related projects.

## Soil Science

**Credit:** .5

**Required:** No

**Prerequisites:** Sophomore standing  
**Offered every other year (2022-23)**

Soil is, to say the least, an incredibly valuable natural resource. Don't think so? Try to grow crops without it. No problem, you say, we'll all eat meat. Okay, but where is the food for animals going to come from? The fact is that 75 percent of the planet's food and almost all of its fiber come from soil. Soil Science is the study of the soil as a component of natural and artificial systems. In this class you will learn about the classification, physical properties, chemistry, and fertility of all kinds of soils. Along the way, you'll develop a working knowledge of ecology, microbiology, chemistry, and physics. You'll have to if you want to understand issues that are central to Soil Science, including water and air quality, landscape design, crop production, and waste management.

## Animal Science \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Required:** No

**Prerequisites:** Sophomore standing  
**Offered every other year (2022-23)**

This course emphasizes careers concerned with these animals: dairy, beef, sheep, pigs, and horses. Breeding and breeds, rearing, health and sanitation management, and housing are also covered. Students will spend time pricing, using market theory and dealing with the futures market. This will be a classroom and lab course, working with some of the local farmers and businesses. Project work in FFA will be encouraged in one of the content areas. This course is offered for science credit.

## Genetics/Biotechnology

**Credit:** .5

**Required:** No

**Prerequisites:** Junior standing, plus one previous Ag class or instructor approval  
**Offered every other year (2022-23)**

From Biotechnology with the use of genetics and GMOs to Precision Agriculture and the use of drones, Ag Technologies are very important to the present and future of agriculture and feeding the growing population. In this course students will learn about the importance of technology and different technologies used in the industry. The class will include labs such as DNA extraction, drone use, building various growing systems, and more.

## Food for Today

**Credit:** .5

**Required:** No

**Prerequisites:** Sophomore standing  
**Offered every other year (2023-24)**

This course addresses the processing of raw agricultural products into finished foods ready for the consumer from Farm to Table. Students will learn to identify the major retail cuts of beef, pork and lamb. They will learn the processes of food preservation. Other areas covered will be quality control and food safety. Students will practice food processing and preservation techniques in hands-on laboratories to include canning, making cheese, jerky and more! A field trip or two to area farms or food processing plants to observe production, processing, quality control and assurance of food safety will also be included. Classroom presentations by food processing industry workers will provide students with information about career opportunities in food science. This course will also address FFA and Supervised Agricultural Experiences.

## **Aquaponics**

**Credit:** .5

**Required:** No

The course will emphasize the study of the quickly advancing field of aquaculture. The course will focus on the different types of aquaculture production and methods involved in raising aquatic plants and animals. Aquaculture/Aquaponics lab work is included within this course. FFA will be a component of this course. This course is offered for science credit.

**Prerequisites:** Sophomore standing  
**Offered during Fall semester (2023-24)**

## **Veterinary Science**

**Credit:** 1.0

**Required:** No

Students will get a hands-on education on the caring and treating domesticated animals, from the heart muscle to the paw. Discussions will include safety, restraints, vet terminology, physical make-up of animals, procedures in examining animals, hospital procedures, and nutrition and management of animals. Students will be working with live animals as well as completing dissections and working with many internal parts of deceased animals. Students will be able to properly handle dogs and cats and other small animals, give a shot, describe the major systems in a body, and perform clinical exams and hospital procedures. There will be many hands-on labs, guest speakers, and possible field trips during the semester. FFA will be a component of this course. This course is offered for science credit.

**Prerequisites:** Junior standing, plus one previous Ag class or instructor approval  
**Offered every other year (2023-24)**

# **ART**

## **Intro to Drawing**

**Credit:** .5

**Required:** No

During this term, you will learn the basics of numerous drawing materials. You will receive your own set of drawing pencils and erasers to complete most of your projects. You will explore the drawing materials of pencil, charcoal, pen, pastels, and more. Projects may include: still life, a class-wide deck of cards, landscapes, and comic books. Your grade will be determined by your main projects, sketchbook assignments, and small vocabulary/technique quizzes.

**Prerequisites:** None  
**Course Fee:** \$5 for set of drawing pencils and erasers

## **Intro to Painting**

**Credit:** .5

**Required:** No

During this term you will experiment with watercolor, acrylic, and oil paints. You will begin by learning basic color theory with an invented color wheel. Your projects may include: abstraction, still life, landscape, stencil graffiti, and pixel painting. Your grade will be determined by your main projects, sketchbook assignments, and small vocabulary/technique quizzes.

**Prerequisites:** None  
**Course Fee:** \$5 for set of paint brushes

## **Intermediate Drawing/Painting I & II**

**Credit:** .5

**Required:** No

Intermediate Drawing/Painting builds on the basic skills learned in Intro to Drawing/Painting while teaching student skills on how to plan and create concepts for their artwork. The course is thematically based, while the drawing/painting material for each project will be the students' choice based on their past skills shown in Intro to Drawing/Painting.

**Prerequisites:** Intro to Drawing or Intro to Painting  
**Course Fee:** \$5 for set of drawing pencils and erasers

## Advanced Art

**Credit:** .5

**Prerequisites:** Junior or Senior standing, plus Grade of A- or better in the subject in which the advanced study is being taken, plus consent of instructor

**Required:** No

This is a contract course offering advanced study in one chosen area. The student will select a minimum of five projects and a related research project. Projects must reflect an advanced level of endeavor. Grades will be based on contract fulfillment and quality of work.

## Printmaking

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Offered every other year (2022-23)**

During this course you will explore multiple forms of printmaking such as monoprinting, wood and linoleum block relief printing (including reduction), screen printing, and intaglio printing. Projects will include greeting cards, portraits, T-shirts, and adult coloring books. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes. This course will now only be offered every other year opposite of Art History.

## Ceramics

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

**Offered every other year (2022-23)**

In this course you will explore the medium of clay and molding it in numerous techniques. You will create art using slabs, coils, and hand building. We will also be experimenting with the wheel to create bowls and cups all quarter long. Toward the end of the quarter we will transition into polymer modeling clay. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes. This course is only offered every other year, opposite of Metals and Glass.

## Intro to Sculpture

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Offered every other year (2023-24)**

You will explore the process of sculpture through the media of plaster, wood assemblage, paper and cardboard, fibers, and more. Projects may include body casting, carving, monster toys, and mobiles. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes.

## Metals and Glass

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

**Offered every other year (2023-24)**

During the term you will explore the potential of creating art with different types of metals and glasses. With glass, you may create mosaics, stained glass, concrete mosaics, and/or fused glass. In metal, you will work with metal tooling, wire and riveting/piercing sheet metal. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes. This course is only offered every other year, opposite Ceramics.

## **AP Art History +**

**Credit: 1**

**Required: No**

**Prerequisites: Junior or Senior standing**

**Offered every other year (2023-24)**

Advanced Placement Art History is a college-level course that looks at art from prehistoric times to the present. Through the examination of different cultures and time periods, students will look at the connection between history and art. The goals of this course are for students to look at art critically and analyze what they see. They will show those skills in essays and quizzes over the course of the semester as well as a midterm at quarter. The course focuses largely on painting and drawing, with aspects of architecture and sculpture, then a small portion of other media, with the majority of the artwork in the European tradition, and 20% outside of Europe. Students will learn the fundamentals of art history terminology and the technical processes of creating art and demonstrate this in their writing. After this course, the students will be prepared for the AP Art History test. Students enrolled in AP Art History will meet before the end of the school year to discuss the course in the fall.

# **BUSINESS EDUCATION**

## **Intro to Business**

**Credit: .5**

**Required: No**

**Prerequisites: None**

This course provides an introduction to what a business is, how it operates, and how it is managed. Students will identify forms of ownership and the processes used in production, marketing, finance, personnel, and management in business operations. An online business simulation will take place that will tie together the business principles that are learned. The simulation will have each student manage a bicycle and jeans factory from top to bottom, including hiring, firing, and picking salaries. There will also be a field trip to a local business.

## **Marketing**

**Credit: .5**

**Required: No**

**Prerequisites: None**

This class is an introduction to the changing world of business and the practices used in the development, production, and selling of a product. Students will gain an overview of all aspects related to marketing. The four P's of marketing will be stressed (product, price, place, and promotion). Marketing is the largest and broadest occupation of all the business related fields and a requirement of any college business related degree program. Students will tour a large manufacturing facility and part of its marketing department as part of this course.

## **Accounting I \***

**Credit: 1.0 (Amherst); 4 (MSTC)**

**Required: No**

**Prerequisites: Junior or Senior standing,  
plus consent of instructor**

A beginning course designed especially for those who would like a strong foundation in accounting principles. It develops the accounting cycle of journalizing, posting, adjusting, closing, and reporting. The class emphasizes service and merchandising sole proprietorships in developing the accounting cycle; explores issues for accounting for cash, accounts and notes receivable, inventories, and fixed assets.

## **Business and Personal Law**

**Credit:** .5

**Prerequisites:** Junior or Senior standing

**Required:** No

This class will introduce the students to the legal issues that have an impact on everyday living. This course is designed for the Junior/Senior who is interested in laws that pertain to their age-level and scenarios they may encounter soon that deal with their everyday lives in and out of school. Topics covered include: ethics, the court system, criminal law, civil law, contract law, sale of goods, warranties, owning a vehicle, personal property, bailments, employment/child labor law, marriage, divorce, insurance protection, and retirement/wills. Guest speakers and a trip to a courtroom are part of this course.

## **Microsoft Office Introduction \***

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Junior or Senior standing

**Required:** No

This course develops introductory skills in the Microsoft Office Suite (Word, Excel, Access, and PowerPoint) while reinforcing the student's knowledge of computer concepts, file management, Internet, and student email usage through demonstrations and lab exercises. Students must possess basic keyboarding, mouse, and Windows skills.

## **Personal Finance**

**Credit:** .5

**Prerequisites:** Junior or Senior standing

**Required:** No

Personal Finance develops understanding of finances, money management, diversity of investments, and use of credit. It also educates students to become better consumers and achieve personal lifestyle goals. The focus of this course is on the individual. The main emphasis will be investing for your future. Topics covered include: Banking, consumer credit/credit cards, saving and investing, stocks, bonds and mutual funds, real estate and other investments, taxes and completing tax forms, and home/motor vehicle insurance. Computer integration with real-life activities will happen throughout this course. This includes completing online course modules. A tour of a large service business and their finance department will be part of this course.

## **AP Microeconomics +**

**Credit:** 1.0

**Prerequisites:** Junior or Senior standing,  
plus consent of instructor

**Required:** No (but will satisfy Economics requirement)

This one-semester course, taught during the Spring semester, covers material found in a beginning level college Intro to Microeconomics course. Major topics include: Introduction to Economics, the Role of Markets, the Theory of the Firm, Labor Markets and Earning, Special Topics in Microeconomics, and AP test prep. The focus of the course is on the individual firm and individual consumer. Current events will be discussed in this class. Students are encouraged to take the Advanced Placement Exam at the end of the school year during the beginning of May.

# **COLLEGE AND CAREER READINESS**

## **PSCDS (Personal, School & Career Development Skills)**

**Credit:** .5

**Prerequisites:** instructor Approval

**Required:** No

This course provides students with an opportunity to experience success in school and improve attitudes and behaviors toward learning, self, school, and community. Students will focus their efforts on critical thinking skills, note taking, and study skills, goal setting and problem solving, life management, career planning, and employability skills. Partnerships with local businesses and organizations will be used to help facilitate community connections and mentoring.

## Career Planning 11

**Credit:** .5

**Prerequisites:** Junior standing

**Required:** Yes

This class is designed to close the gap between the skill requirements in entry level positions and the skill levels of entry level applicants. Technical and non-technical skills such as reading and completing applications, basic money skills, problem solving, decision making, higher order thinking, dependability, cooperativeness, positive attitude, and other effective skills and traits. Career searches, interview processes, and job shadowing will be included.

## Work Release

**Credit:** .5 per term (max 4 credits)

**Prerequisites:** Junior or Senior standing

**Required:** No

This program is designed to allow students to gain work experience and develop workplace skills and habits to enhance employability. Credit will be given toward graduation with a passing grade. Students must be in good credit standing to participate in Work Release.

## Youth Apprenticeship Program

**Credit:** Varies (max 4 credits)

**Prerequisites:** Junior or Senior standing

**Required:** No

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

# ENGLISH

All 9-12 students are required to take four credits of English. Required English classes at levels 9, 10, 11, and 12 are two term classes, and students should take these classes during terms one and two or three and four of their corresponding year. Required English classes are offered on two or three tiers. Student placement on each tier is based on teacher assessment, test scores, office recommendations, and student choice. It is important to read not only the general descriptions that follow, but also the specific course descriptions for courses at each grade level when making course choices, since this may have an impact on your success in class and with future goals.

Courses indicated by grade level (9, 10, 11, and 12): These English classes are designed for students at each grade level. Each course includes a good background in literature, including novels, short stories, drama, and poetry, plus process-oriented writing projects and speaking experiences.

English Emphasis on Literature and Composition: Students taking designated courses can expect a brisk learning pace and high performance expectations. Students in these classes should expect daily homework, more extensive writing projects, challenging literature, and assignments that simulate college level requirements.

## English 9

**Credit:** 1.0

**Prerequisites:** None

**Required:** Yes (or Emphasis Lit & Comp 9)

In English 9 students will read various literary genres including short stories, novels, and drama (*Romeo and Juliet*). The focus of their writing will be the paragraph, including narration, summation, persuasion, and comparison and contrast. Appropriate supporting details will be emphasized. Also, common rules of English grammar will be reviewed and practiced in writing assignments. Students will be expected to participate in discussion and small and large group activities. Students in English 9 can expect regular homework, consisting of reading and writing assignments.

## **Emphasis Literature and Comp 9 (ELC 9)**

**Credit: 1.0**

**Prerequisites: None**

**Required: Yes (or English 9)**

This class is recommended for students who plan to attend college and who desire challenging college preparatory course work. English 9C will read and analyze several short stories, three novels, and one of Shakespeare's plays. In addition, students will read a wide range of poetry selections and write several original poems. Students will be expected to give oral presentations and speeches. Expository and creative writing assignments will be given. Students in English 9C should expect daily homework. Work on projects will generally be done outside of class.

## **English 10**

**Credit: 1.0**

**Prerequisites: Sophomore standing**

**Required: Yes (or Emphasis Lit & Comp 10)**

In English 10 students can expect literature of average reading difficulty including drama, novels, short stories, and poetry. Another main focus of English 10 is speech. At this grade level students will be required to make informational, demonstration, and persuasive speeches. Students in English 10 will also complete a number of short informal and formal essays, while at the same time regularly attacking mechanics, usage, and sentence problems. Students in English 10 can expect regular homework, usually consisting of reading assignments.

## **Emphasis Literature and Comp 10 (ELC 10)**

**Credit: 1.0**

**Prerequisites: Sophomore standing**

**Required: Yes (or English 10)**

This class is recommended for students who plan to attend college and who desire challenging college preparatory course work. English 10C students will read a wide range of literature taken from college prep reading lists, including three novels, one of Shakespeare's plays, a modern play, short stories, and essays. They will deliver a series of speech projects, and write in a variety of forms, including extended formal and informal essays with an emphasis on structure. Students in 10C will also work daily on mechanics, usage, and sentence problems and spend some time on a review of basic grammar. Students in English 10C should expect daily homework.

## **English 11**

**Credit: 1.0**

**Prerequisites: Junior standing**

**Required: Yes (or Emphasis Lit & Comp 11)**

English 11 focuses on a survey of American literature of average reading difficulty including short stories, poetry, drama, novels, and short nonfiction. Students may expect individual reading, writing, and vocabulary work as well as group work and at least one presentation to the class. Students in English 11 can expect regular homework.

## **Emphasis Literature and Comp 11 (ELC 11)**

**Credit: 1.0**

**Prerequisites: Junior standing**

**Required: Yes (or English 11)**

This class is recommended for students who are planning to attend college and who desire challenging college preparatory course work. The class revolves around a survey of American literature including short stories, drama, poetry, nonfiction, and at least three novels. Students will prepare various writings and at least one presentation to the class. Students can expect regular homework.

## **Honors Emphasis Literature and Comp 11 (Honors ELC 11)**

**Credit:** 1.0

**Prerequisites:** Junior standing

**Required:** No (but can substitute for English 11 or ELC 11)

**Note:** This is NOT an AP course.

Honors Emphasis Literature and Composition 11 is designed for students who want an academic challenge and are willing to commit to the high expectations of an honors course. The course will closely follow the ELC 11 curriculum with the addition of reading and writing enrichment activities throughout the semester. Students who follow the honors curriculum will be rewarded with a deeper knowledge and great skills in the areas of literature and writing.

## **English 12**

**Credit:** 1.0

**Prerequisites:** Senior standing

**Required:** Yes (or ELC 12 or AP Lit)

This class will focus on the development and improvement of practical English skills. In addition to personal writing, the types of writing required in business/work situations and post-secondary schools will be practiced. Students will read from a variety of texts, including novels, essays, and short stories. English 12 students may also be required to make oral presentations, both individually and in groups. Students can expect regular homework.

## **Emphasis Literature and Comp 12 (ELC 12)**

**Credit:** 1.0

**Prerequisites:** Senior standing

**Required:** Yes (or English 12 or AP Lit)

This class is recommended for students who are planning to attend college and who desire challenging college preparatory course work. During the first term, emphasis is on expository writing (extended essays), critical and analytical reading and thinking, and summary and paraphrase writing. Common mechanical weaknesses in writing will also be reviewed. Second term provides instruction in research process and skills, application opportunities for these skills, as well as literary study, independent project work, and more critical writing. Reading selections used in this class include novels and essay collections found on college preparatory reading lists. Students in English 12C should expect a high grading scale (92% and above = A) and daily homework.

## **Challenged Books**

**Credit:** .5

**Prerequisites:** None

**Required:** No

This course centers on literature that have been challenged in various ways around the world. Students will explore how individual texts fit into larger historical and cultural contexts.

## **Creative Non-Fiction**

**Credit:** .5

**Prerequisites:** None

**Required:** No

This class will explore a variety of creative nonfiction texts, including essays, biographies, and memoirs. Students will also be given the opportunity to produce their own creative nonfiction.

## **Dramatic Literature**

**Credit:** .5

**Prerequisites:** None

**Required:** No

This course will study playwrights from the Greeks to the present and various forms and styles of drama. Class time will be spent reading and analyzing plays and monologues. Discussion and reading aloud are necessary to this class; projects and presentations will be completed to enhance understanding of what is read.

## Graphic Novels

**Credit:** .5

**Prerequisites:** None

**Required:** No

Students will read and study various graphic novels of multiple genres. All elements of graphic novels will be discussed including storytelling, art, and structure.

## Poetry

**Credit:** .5

**Prerequisites:** None

**Required:** No

Throughout this course, students will read and write a variety of poetry. Poetry will be from a wide range of styles, time periods, and geographical origin.

## Shakespeare

**Credit:** .5

**Prerequisites:** None

**Required:** No

This course will give students the opportunity to study a variety of Shakespearean writing including tragedies and comedies.

## College Composition \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Junior or Senior standing

**Required:** No

College Composition focuses on the writing process. A variety of written communication elements will be examined including format, graphics, and layout. To do this, various advanced writing projects are explored: academic research paper, analytical report, persuasive proposal, descriptive writing, narrative writing and formal correspondence.

## Oral Communication \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Junior or Senior standing

**Required:** No

This course focuses on developing the skills needed for effective interpersonal and oral communication, both in daily living and on the job. Students will recognize and deal with personal communication strengths and weaknesses through activities, projects, and discussions. Verbal, non-verbal, listening, and oral presentation skills will be emphasized.

## Speech \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Junior or Senior standing

**Required:** No

This class focuses upon developing speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities, and other projects.

## AP Literature and Composition +

**Credit:** 1.0

**Prerequisites:** Senior standing

**Required:** No (but can substitute for English 12 or ELC 12)

This is a course designed for the advanced, college-bound student who wishes to take on an academic challenge. The reading and writing will be at a college level. Students will mature as readers and writers by reading and carefully analyzing a broad and challenging range of fiction and nonfiction prose, deepening their awareness of rhetoric and how language works. The course requires students, independently and with others, to critically read, respond to, interpret, analyze, synthesize and evaluate a wide variety of texts. Toward the end of their Junior year, students signed up for this course will meet with the instructor to get their summer reading assignments which must be completed by the beginning of the school year. By the end of this course, students will be prepared to take the Advanced Placement Literature and Composition test. They may also take the Language and Composition test.

## **Creative Writing**

**Credit:** .5

**Required:** No

**Prerequisites:** English 9 or ELC 9

**Offered every other year (2023-24)**

This is a workshop course for students who are interested in expressing themselves through writing. Students will be exposed to various models of writing in a variety of genres such as poetry, drama, fiction, and essays, and will be asked to share their own writing with the class.

## **Mystery / Crime Lit**

**Credits:** .5

**Required:** No

**Prerequisites:** None

**Offered every other year (2023-24)**

This class will cover a sampling of popular and inventive mystery and crime novels. More information to come based on student interest.

## **Mythology**

**Credits:** .5

**Required:** No

**Prerequisites:** None

**Offered every other year (2023-24)**

Myths are traditional stories that have endured many years. Some of them have to do with events of great importance, such as the founding of a nation. Others tell the stories of great heroes and heroines and their exploits and courage in the face of adversity. Still others are simple tales about otherwise unremarkable people who get into trouble or do some great deed. What are we to make of all these tales, and why do people seem to like to hear them? This course will focus on world myths as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. Are myths subtle codes that contain some universal truth? Are they a window on the deep recesses of a particular culture? Are they entertaining stories that people like to tell over and over? We will investigate these questions through a variety of topics including the creation of the universe and the structure of the cosmos, relations between gods and mortals, religion and divination, justice, society, family, love, madness, and death.

## **Digital Journalism**

**Credit:** .5

**Required:** No

**Prerequisites:** Media I, Photography

**Offered every other year (2023-24)**

This course covers writing for a variety of digital publications including blogs, newspaper articles, yearbook, social media outlets and podcasts. Students will be given experiences in a wide variety of publishing outlets with the goal being to achieve professional publication experience.

# FAMILY AND CONSUMER SCIENCE

## Beginning Foods

**Credit:** .5

**Prerequisites:** None

**Required:** No

This class emphasizes basic cooking and baking techniques for the beginning cook. Kitchen work efficiency and cleanup are emphasized in each lab covering food preparation techniques like microwave use, changing recipes, quick breads, milk, cheese, eggs, cookies, pasta and meal planning. Teacher demonstrations, DVDs, quizzes, and written work are all a part of the course.

## Hobbies and Crafts

**Credit:** .5

**Prerequisites:** None

**Required:** No

This project based class emphasizes inexpensive fiber, paper, and wood arts as part of hobby and leisure time activities. Craft options include knitting/sewing, photo transfer to wood, glass etching, string art, and recycled t-shirt crafts. Students will also choose at least two independent craft projects in which they supply all needed materials. Projects might include fleece tie blankets, simple sewing projects like pillow or bags, scale model vehicles, or other hobby interests. Grades are based primarily on effort, use of time and quality of completed projects.

## Foods and Wellness

**Credit:** .5

**Prerequisites:** Beginning Foods

**Required:** No

Discover how the choices you make about food influence the wellness of you and your family. Labs will emphasize food basics not covered in Beginning Foods like yeast breads, fruits and vegetables, pastry, beef, soups, healthy snacking and holiday meals. Class grades will be determined by lab work, class participation, written work, student demonstrations, DVDs, and quizzes.

## Essential Concepts for Health and Wellness \*

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

An introductory class including basic health and wellness promotion principles at the individual level; basic principles include physical, mental, and spiritual. Students explore a holistic view of health and wellness concepts covering healthy lifestyle choices, managing stress, individual wellness perspective and how economics can positively and negatively impact the health and wellness of an individual.

## Food Culture

**Credit:** .5

**Prerequisites:** Beginning Foods, Sophomore standing

**Required:** No

Classroom experiences will focus on how important food is to every culture. Students will apply food preparation information learned in previous foods classes in labs emphasizing American regional foods, foods from many foreign countries like China, France, Italy, Mexico and Poland as well as holiday foods and cake decorating as part of cultural celebration. Labs, student demonstrations, group projects, DVDs, and written notebook work determine grades.

## **Mental Wellness and Stress Management \***

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

This course will investigate the underpinnings of mental health and wellness. Explore the risks of stress and emotional management techniques to mitigate these risks by embracing a growth mindset. The learner will be engaged in processes to support the emotional dimension of health and demonstrate ways to implement these practices for oneself and others along their wellness journey.

## **Parenting Today**

**Credit:** .5

**Prerequisites:** Junior standing

**Required:** No

This class explores multiple topics concerning the individual, relationships, love and marriage, preparation for parenthood, pregnancy and childbirth, child development, and positive parenting techniques. Despite the desire to have or not have children at this point in a young adult's life, learning about the impact and interaction of parents and children help all of us in a society. Student grades will be determined by points earned on DVD observation and discussion, quizzes and tests, the Real Care baby project, group discussion, and homework assignments.

## **Food Service**

**Credit:** .5

**Prerequisites:** Foods and Wellness or Food Culture; Junior standing

**Required:** No

Put your special interest and creative skills in food preparation to work. Explore the world of food service from fast foods to high end restaurants. Quantity food preparation will be emphasized through study of commercial equipment, large quantity recipes, menu planning, marketing, management, buying, cost control and personnel, as well as new and review units on food preparation. Guest speakers from local restaurants and catering businesses come to class to demonstrate techniques and to share knowledge of the food service industry. Lab work, class participation, written assignments, quizzes, and a "Design your own Restaurant" project determine grades.

## **Independent Living 12**

**Credit:** .5

**Prerequisites:** Senior standing

**Required:** Yes

This class is designed to build students up for life after high school. Some topics may apply to now, some maybe not until the distant future - but at one point in their lives they will face these struggles and it will be helpful to know where to begin. This class has a broad variety of topics, and time will be taken to expand upon questions students may have individually. A major component of this class is a condensed finance course focusing on how to become financially literate, and how that is related to healthy living, better relationships, accomplishing goals, and enjoying a more positive, fulfilling life with fewer complications. Xello is also incorporated into this class to help guide students in their final year of high school in taking their first steps towards a career. Finally, we will touch on: some aspects of parenting, housing and decisions that affect housing, home care, eating healthy on a budget, ways to avoid consumer fraud and other consumer related topics.

## **Principles of Baking & Pastry**

**Credit:** .5

**Prerequisites:** Beginning Foods; either Food/Well or Food Culture

**Required:** No

**Offered every other year (2023-24)**

In Principles of Baking and Pastry, students will build upon the beginning baking skills learned in Beginning Foods and learn to make a variety of yeast breads and quick breads with a focus on the scientific principles that yield the best baked products. Students will also practice the preparation of different types of cookies, cakes, pastries, and key culinary techniques such as meringue production. Students will learn the scientific principles behind candy making as they prepare a variety of homemade candies and learn techniques for preparing a variety of specialty desserts including crème brûlée, pate a choux, homemade ice cream, custards, and puddings. Students will practice plating eye-catching desserts plus designing and decorating their own custom cakes for a special occasion. Science and math skills are reinforced through practical foods lab experiences.

# **HEALTH**

## **Health**

**Credit:** .5

**Prerequisites:** None

**Required:** Yes

The course seeks to present a body of knowledge and understanding of materials dealing with the three sides of a person's health triangle: mental/emotional, physical, and social. The course stresses the importance of balancing these sides to achieve wellness throughout student's lives. Information will be given to students through discussion, PowerPoint presentations, projects, and videos. Assignments, projects, quizzes, and tests are the means for grading students.

# MATHEMATICS

It is highly recommended that college-bound students complete both Algebra II and Geometry

## 2021-22 Math Progression Options

Find your grade, then find your current math class. That is your starting point and will determine your path number.  
Plan your future math courses by following your Path to the right.

Optional Paths	FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
Path 1	Pre Algebra	Pre Algebra	Algebra I		Geometry		College Alg. w/App	
Path 2	Pre Algebra	Pre Algebra	Algebra I		Geometry		Algebra II	Pre-Calc/Trig
Path 3	Algebra I		Geometry		College Alg. w/App		Algebra II	
Path 4	Algebra I		Geometry		Algebra II		Pre-Calc / Trig	AP Stats
Path 5	Algebra I		Geometry		Algebra II	Pre-Calc / Trig	AP Calculus AB	
Path 6	Algebra I	Geometry	Algebra II		College Alg. w/App			AP Stats
Path 7	Algebra I	Geometry	Algebra II		College Alg. w/App	Pre-Calc / Trig		AP Stats
Path 8	Algebra I	Geometry	Algebra II		College Alg. w/App		Pre-Calc / Trig	
Path 9	Algebra I	Geometry	Algebra II		College Alg. w/App	AP Stats	Pre-Calc / Trig	
Path 10	Algebra I	Geometry	Algebra II		Pre-Calc / Trig			AP Stats
Path 11	Algebra I	Geometry	Algebra II		Pre-Calc / Trig		AP Calculus AB	
Path 12	Algebra I	Geometry	Algebra II		Pre-Calc / Trig		AP Calculus AB	AP Stats
Pat 13	Algebra I	Geometry	Algebra II	Pre-Calc / Trig	AP Calculus AB			AP Stats
Path 14	Algebra I	Geometry	Algebra II	Pre-Calc / Trig	AP Calculus AB	AP Stats	AP Calculus BC	UWSP

### Pre-Algebra

**Credit: 1.0**

**Prerequisites: None**

Pre-Algebra is a two-term course designed to introduce the student to the topics needed to go into Algebra I. It introduces sets, real numbers, rational expressions, and problem solving with variables, polynomials, graphs, and systems of equations. Grades are determined by a combination of tests, quizzes, and daily work.

### Algebra I

**Credit: 1.0**

**Prerequisites: None**

Intermediate Algebra is a two-term course that expands on the topics introduced in Beginning Algebra. It will include the study of rational and irrational number systems, the quadratic equation, introduce trigonometry and vectors, probability and statistics, functions notation and graphing, determinants, polynomial expressions and functions. Grades are determined by a combination of tests, quizzes, and daily work.

## **Tech Math & Geometry Concepts \***

**Credit: 1.0**

**Prerequisites: Algebra I**

This course is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, and also making connections.

## **Geometry**

**Credit: 1.0**

**Prerequisites: Algebra I**

Geometry is a two-term course in logic and reasoning. It is designed to get the student to think in a logical step-by-step process in solving problems concerning all types of geometric figures including triangles, quadrilaterals, and circles. The use of theorems, postulates, and definitions is essential. Special areas include the exact measure to angles and line segments constructions with compass and a straightedge, and areas of polygons. Grades are determined by a combination of tests, quizzes, and daily work.

## **College Algebra with Applications \***

**Credit: 1.0**

**Prerequisites: Algebra I**

This course offers algebra content with applications. Topics include properties of real numbers; order of operations; algebraic solution for linear equations and inequalities; operations with polynomial and rational expressions; operations with rational exponents and radicals; and algebra of inverse, logarithmic, and exponential functions.

## **Algebra II**

**Credit: 1.0**

**Prerequisites: Algebra I, Geometry**

Advanced Algebra is a two-term course that expands on the topics introduced in Intermediate Algebra. It will include the study of sequences and series, polynomial functions, quadratic relations and systems, exponents and logarithms, permutations, combinations and probability, matrices, trigonometric and circular functions, trigonometric identities, inverses, polar coordinates, vectors and statistics. Grades are determined a combination of tests, quizzes, and daily work.

## **Pre-Calculus/Trigonometry**

**Credit: 1.0**

**Prerequisites: Geometry, Algebra II**

In this course, students will use algebra to manipulate inverse, composite, and piecewise-defined functions as well as integrate characteristics of functions and transformations of functions. Other topics covered include functions, graphs, trigonometry, modeling, algebraic manipulation, rates of change, limits, complex numbers, series, conic sections, and area under a curve. This course is well balanced among procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (application and extension).

## **AP Calculus AB +**

**Credit: 1.0**

**Prerequisites: Pre-Calculus/Trigonometry, with at least a B- in that class**

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. This semester-long AP course covers topics in these areas, including concepts and skills or limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to solve problems, experiment, interpret results, and support conclusions. Previous AP Exams are completed and analyzed.

## **AP Statistics +**

**Credit: 1.0**

**Prerequisites: Geometry, Algebra II**

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1.) Exploring Data; describing patterns and departures from patterns; 2.) Sampling and experimentation; planning and conducting a study; 3.) Anticipating patterns; exploring random phenomena using probability and simulation; 4.) Statistical inference; estimating population parameters and testing hypotheses. Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course.

# **MEDIA**

## **Media**

**Credit: .5**

**Prerequisites: None**

**Required: No**

**Class Limit: 22**

This should be the first course a student takes within the Media department. This one-term, project-based class is designed to introduce students to a variety of media manipulation processes including but not limited to photo editing, image creation, animation, print layout, digital sound editing, and video editing. Students will create a series of projects in class that reflect technical proficiency and demonstrate understanding of key concepts. Project-based activities in this course rely heavily on the use of technology. The course is limited in size due to required equipment resources.

## **Photo Journalism**

**Credit: .5**

**Prerequisites: None**

**Required: No**

**Class Limit: 22**

Students will be given a strong background in photography and the use of Photoshop and other desktop publishing programs to produce photographs for a variety of fine arts applications and audiences. Students will learn to use digital cameras and scanners to produce professional-looking images and incorporate them into projects. A very limited number of cameras are available for classroom use. Students are **STRONGLY** encouraged to provide their own camera for class. Other devices with photographic capabilities, such as phones, may also be used.

## **Podcasting**

**Credit: .5**

**Prerequisites: Media**

**Required: No**

**Class Limit: 22**

Students will study, create, and edit podcasts in a variety of genres.

## **Web & Graphic Design**

**Credit: .5**

**Prerequisites: Media; Photo Journalism**

**Required: No**

**Class Limit: 22**

This is an advanced offering. Students will be given a strong background in the use of desktop publishing and graphics applications to produce documents and presentations for a variety of audiences. Students will learn how to use digital cameras and scanners to produce professional-looking images and incorporate them into projects such as mock magazines, product packaging, and business materials. In this course students will be introduced to major concepts in web design, including vetting information, managing one's online life/social media, digital citizenship, and publishing ideas. Units will include video production, coding in JavaScript, blogging, posting on YouTube, and webpage design & management. Students will complete projects both in groups and as individuals, some for publication on the web. This is a workshop class requiring self-discipline in regard to using expensive, sensitive equipment and using work time wisely.

## Yearbook

**Credit:** .25

**Required:** No

**Prerequisites:** Sophomore standing

**Note:** Class meets 5<sup>th</sup> Hour. May be taken opposite Band or Choir, but must be taken for the entire semester to earn credit

In this course, students will gain skills in one or more of the following areas: page design, advanced publishing techniques, copy writing, editing and photography while producing a creative, innovative yearbook which records school memories and events. There is an emphasis on journalism skills in this class! Participants gain useful, real-world skills in time management, marketing, teamwork, and design principles.

# MUSIC

## Band

**Credit:** .5 per semester

**Required:** No

**Prerequisites:** None

**Note:** There is a \$15 annual fee for those students using school instruments

The High School Band will emphasize music theory, music history and literature, the language of music, and the study of fundamentals and techniques necessary for the performance of music at an advanced level. Rehearsals will be daily and organized in an entire ensemble or section format. Each student is expected to have prepared their part to the best of their ability so the rehearsal is used mainly for the benefit of the ensemble as a whole and not for teaching an individual their part. The Band will provide music (Varsity Band) at home football games, ten varsity basketball games (five boys games, five girls games). The band also has the responsibility for providing music at the Commencement and Memorial Day ceremonies. The group will also be involved in a public performance during each of the four terms. Members are expected to be at all public performances. This is a significant part of the work and participation is necessary to receive credit. Students will receive points for rehearsals, sectionals, and individual lessons as well as other enrichment activities and projects. Point requirements for a grade are determined for each term by the instructor. Fees include \$15 per year for those using school instruments and those fees that may be required for purchasing method books for class.

## Choir

**Credit:** .5 per semester

**Required:** No

**Prerequisites:** None

The High School Choir is designed to continue the Junior High choir experience. Study will emphasize vocal technique, vocal care and maintenance, music theory, and music history. Leadership and solo opportunities will be provided throughout the year. Rehearsals will be daily and will consist of preparation of music for performance, as well as other activities. Required performances will include, but are not limited to, two departmental concerts. Choir members are expected to be present at all performances. Students will receive points for rehearsals, sectionals, and individual lessons as well as other enrichment activities and projects. Point requirements for a grade are determined for each term by instructor.

# PHYSICAL EDUCATION

The Physical Education curriculum is organized to provide Amherst students a balanced program of activities that meets the various goals of the Physical Education Department, including regular exercise; the opportunity to participate in individual and team sports; recreational skills; and the development of strength, endurance, agility, reaction time, rhythm, coordination, balance, grace, creativity, problem solving skills, and relaxation.

## Phy Ed

**Credit:** .5

**Prerequisites:** None

**Required:** Yes

High school students need to complete a minimum of four (4) physical education classes (a total of two credits) to meet graduation requirements. Students can choose any combination of the following classes, and classes can be repeated. Physical education classes may be taken as electives once graduation requirements are met.

**PE: Team Sports:** Students will participate in team play such as basketball, volleyball, handball, softball, flag football, floor hockey, matball, etc.

**PE: Dual/Individual Sports:** Activities include badminton, pickleball, golf, archery, bowling, etc.

**PE: Fitness in L.I.F.E.:** Designed to educate students on how to become a better leader using four core values (Leadership – Integrity – Family – Empathy). This class will provide students with opportunities to explore, develop, and apply their leadership skills to promote a better community for themselves and their peers. Along with improving a student's leadership skills, students will also learn proper techniques in weight lifting and safety in the weight room; and to help students improve their overall level of physical fitness with emphasis on muscular strength and endurance. Students will establish personal lifting goals and will develop an individual their own personal weight training program to accomplish their goals. Information on proper nutrition and maintaining a healthy body composition will also be included in this course.

**PE: Strength and Conditioning:** This course focuses on the practical application of core strength, power, anaerobic endurance, flexibility, and balance. Students will learn different types of strength programs and how each should be used based on performance and personal goals. Strength and Conditioning will promote fitness excellence and provide the opportunity to learn and apply strength and conditioning principles that each student will use in their personal programs. This is a very physically demanding course. Strength and Conditioning classes will be offered each quarter. Students may sign up for multiple classes each year.

## Weight Training

**Credit:** .25

**Prerequisites:** Phy Ed 9; Sophomore standing

**Required:** No

**Note:** Class meets 5<sup>th</sup> Hour. This course does not replace any Phy Ed class.

This course will be designed to challenge students interested in becoming bigger, faster, and stronger. Course work will include work in the weight room, stretching, speed work and endurance. Students will be able to tailor and design programs to meet their individual needs. This course is for the busy athlete and the student who wants to go beyond weight training in the regular physical education class. The grade will be determined by participation, progress, written work, and tests.

# SCIENCE

## Intro to Physics

**Credit: 1.0**

**Prerequisites: None**

**Required: Yes**

This course is an introductory course in which students will explore the basic concepts of physics, such as force and motion, electricity, magnetism, sound and light. Earth science concepts such as plate tectonics and changes in the earth over time will also be covered. Students will explore the relationship between science and everyday life. Evaluation will be through laboratory reports, tests, and class and laboratory participation

## Biology

**Credit: 1.0**

**Prerequisites: Sophomore standing  
or instructor approval**

**Required: Yes**

Biology is the study of life. It is the most relevant of all the sciences to our daily lives on this planet because it touches on almost every human action. Because it is concerned with life, biology examines all aspects of people; our evolutionary history; our structure, function, and behavior; our relationship to our environment; our potential. The course is laboratory oriented. Grading is based on testing, laboratory work and written or oral reports.

## Earth Science

**Credit: 1.0**

**Prerequisites: Intro to Physics**

**Required: No**

This elective class will focus on various topics of earth science, such as geology, rocks and minerals, fossils, geologic time, oceanography, and astronomy.

## Forensic Science

**Credit: 1.0**

**Prerequisites: Biology; Junior standing**

**Required: No**

The students in this course are taught the fundamentals of a criminal investigation and how it is applied in a court of law. They learn by doing; they process crime scenes, analyze lab data, conduct scientific investigations, interact with guest speakers, explore the Internet and become familiar with various texts. Students use technology to participate in activities that closely resemble those used by law enforcement personnel, forensic scientists and district attorneys.

## Advanced Biology

**Credit: 1.0 (counts as Lab science)**

**Prerequisites: Biology**

**Required: No**

Advanced Biology will focus on the study of genetics, developmental biology, and evolution. Topics covered will include: Fundamentals of genetics, protein synthesis, gene expression, inheritance, gene technology, history of life, evolution, speciation and developmental biology. Grading will be based on labs, reports, projects and tests.

## Chemistry

**Credit: 1.0 (counts as Lab science)**

**Prerequisites: Intro to Physics**

**Required: No**

Chemistry is the study of the composition of substances and the changes that substances undergo. Topics of study include: Scientific measurement, problem solving, atomic structure, chemical names, formulas, quantities and reactions, bonding, properties of solutions, acids and bases, redox reactions, electrochemistry, and organic chemistry. Teaching strategies include laboratory experiments and discussion, along with textbooks, lectures, and videos. Grading is determined by test and quiz results, laboratory work and daily assignments. A good grasp of Algebra is recommended.

## Physics

**Credit:** 1.0 (counts as Lab science)

**Prerequisites:** Intro to Physics

**Required:** No

Physics is the science that deals with matter and energy and their interactions. It is learned through investigation and inquiry. To this end, much time is spent in the laboratory. Specific topics covered include work and motion, nuclear physics, sound, light and optics, electrical theory and circuit analysis. Grading is primarily based on testing problems and laboratory work. A good grasp of Algebra is recommended.

## Anatomy/Physiology

**Credit:** 1.0 (counts as Lab science)

**Prerequisites:** Junior standing

**Required:** No

Anatomy/Physiology is an in-depth look at the inner workings of the human body. This course examines nerves, muscles, hormones, respiration and the cardiovascular system, all with an emphasis on medical and practical application of knowledge. This is an advanced biology course for students interested in medical technology, health care and biological changes in the human body.

## Medical Terminology and Health Science \*

**Credit:** 1.0 (Amherst); 3 (MSTC)

**Prerequisites:** Junior standing

**Required:** No

Med Term is the study of the vocabulary and language used in health-related careers. Students will then explore the medical field by examining careers in health care as well as the skills and qualities of a health care worker. Additional topics include history of medicine, medical technology, ethics, infection control, and cultural awareness.

# SOCIAL STUDIES

## Social Studies 9

**Credit:** .5

**Prerequisites:** None

**Required:** Yes

Social Studies 9 is a one-term course to be taken by freshmen. Topics will include media literacy, current events, a history of the Supreme Court and its landmark cases; and an introduction to the study of history, economics, psychology, and political science. This course is a prerequisite to US History I. Grading is based on projects, group work, individual work, tests, projects, and other instructor requirements.

## History in Movies

**Credit:** .5

**Prerequisites:** None

**Required:** No

This class will strive to bring the study of history to life with the use of film, music, and literature. Before, during, and after film viewing, we will research for background information to help learn about and discuss these moments in time. Students will learn to view film as a means of both education and entertainment. Sample films and topics we can study include: *On the Basis of Sex* (discrimination); *The Immortal Life of Henrietta Lacks* (scientific ethics, racism); *Hotel Rwanda* (genocide, Imperialism); *All the Way* (compromise in legislation; civil rights); *All the President's Men* (Watergate; journalistic fact-checking); *Good Night and Good Luck* (the Cold War).

## Local History

**Credit:** .5

**Prerequisites:** None

**Required:** No

Local History is a one-term elective course. Created for the motivated independent learner, we will study different aspects of Amherst, Portage County, and Wisconsin history. Potential topics include local geography and the impacts of glaciation; prehistoric Wisconsin; first Europeans; the development of Portage County; Norwegian influences on Nelsonville; Amherst history; railroad history; and logging history. Students will learn about the methods used by historians to research and preserve local stories. Projects will include Oral History Research and Genealogical Research.

## World War II History

**Credit:** .5

**Prerequisites:** None

**Required:** No

This term class will be divided into the Atlantic Theater and the Pacific Theater. We will begin by studying the war in Europe for the first half and the war in Asia for the second half. We will go into great depth on five or six battles and the rest will be an overview. We will be watching some episodes from the HBO series *Band of Brothers* as well as other videos that show what war is really like. You will leave this class with a greater wealth of knowledge about the Second World War, a greater respect for the men and women who served in it, and a better understanding of what it means to be an American.

## Psychology

**Credit:** .5

**Prerequisites:** None

**Required:** No

Psychology is a nine-week course geared toward helping college bound students prepare for their introductory classes at the university level and/or prepares students to take AP Psychology later. Psychology is the science of behavior and mental processes. This course is designed to acquaint students with psychology and to become familiar with the concepts of the field and with some of the research findings upon which our knowledge of human thought and behavior is based. We will be exploring the science of mental processes and behavior, including topics such as psychological research methods, brain biology and learning, human cognition and emotion, personality and social/cultural interaction, psychological disorders and treatment.

## US History I

**Credit:** 1.0

**Prerequisites:** Social Studies 9

**Required:** Yes

The first term of US History I will deal with exploration and colonization by European powers throughout the world. U.S. colonization, the American Revolution and Independence follow as we study the development of a new nation. Government, citizenship and democracy will be emphasized in a review of the U.S. Constitution. The second term will begin with the study of policy making by the first Presidents. The movements of both nationalism and sectionalism will be introduced. U.S. geography will be studied during westward expansion and the U.S. belief of manifest destiny resulting in the war with Mexico. Emphasis will be placed on reforms and other decisive factors leading up to the Civil War. Grading is based on projects, class participation or group work, unit assignments, tests, term projects, and other instructor requirements.

## AP Psychology +

**Credit:** 1.0

**Prerequisites:** Junior or Senior standing,  
Sophomores only with instructor approval

**Required:** No

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. Students will study how psychologists think in each of the major fields of psychology (biological, behavioral, cognitive, humanistic, psychodynamic and sociocultural). This class is meant to prepare students to take the AP Psychology exam in the spring to earn college credit. This class is taught at a college level.

## US History II

**Credit:** 1.0

**Prerequisites:** US History I

**Required:** Yes

The first term of US History II will cover the Civil War, Reconstruction, and American industrial and economic development up to the First World War concentrating on agriculture, government and big business, including the development of the corporation and labor movements. The Progressive Era covers attempts at reform during this period in areas such as business regulation, education, law, women's rights, etc. The study of World War I will cover the U.S. role, foreign relations, and attempts at world government. The second term will study the Roaring Twenties showing a new society and changing manners and morals. The Great Depression follows with an emphasis of how the entire U.S. economy changed. FDR and his New Deal will be covered, as well as the U.S. role in World War II. This study of the modern era will cover the Cold and Hot wars of the 1940s, 1950s, and 1960s as well as a look at the changing culture of that time period including the Civil Rights movement. War and peace in the Middle East and Europe will conclude our study of United States history. Grading is based on projects, class participation or group work, unit assignments, tests, term projects, and other instructor requirements.

## Honors US History +

**Credit:** 1.0

**Prerequisites:** Junior or Senior standing

**Required:** No

This course is a one-semester course that is designed to model a typical college freshman survey course in United States history. The purpose of the course is twofold. First, it is designed to challenge students by exposing them to a higher level of material and develop a greater appreciate of United States history. Second, this course will prepare students to take and be successful on the AP Exam held in May of each year. Course content will trace the development of social, political, economic, and cultural institutions in America from early settlement up to present day United States.

## Economics

**Credit:** .5

**Prerequisites:** Senior standing

**Required:** Yes (can substitute AP Microeconomics)

Economics is the study of how people use scarce resources to satisfy their wants. Students will study the basic economic problem: too many wants but limited resources. They will apply this problem to all levels of economic activity, including their own lives. We will study economic systems, supply and demand, forms of business, banking investment, economic indicators and the global economy. Real life skills will be stressed such as the importance of saving for retirement, diversification, credit scores and fiscal responsibility.

## Sociology

**Credit:** .5

**Prerequisites:** Senior standing

**Required:** Yes

Sociology is the study of human social interaction and behavior. This course also studies the impact that outside forces, like peer pressure, have on individual behavior. Chapters of study will include culture, social structure, deviance and social inequality. Major sociological studies like the Milgram study and the Stanford Prison experiment will be analyzed; as well as many others. Students will realize the power and influence that their surroundings have on their behavior.

# SPANISH

## Spanish I

**Credit:** 1.0

**Prerequisites:** None

**Required:** No

The essentials of reading, writing, and pronunciation will be taught, with an emphasis on practical skills and fundamental grammar. Students will also become informed about the civilization, culture, customs, and way of life of Spanish-speaking peoples.

## Spanish II

**Credit:** 1.0

**Prerequisites:** Spanish I

**Required:** No

A continuation and expansion of grammar, vocabulary, and pronunciation learned in Spanish I. Usage, verbs, and sentence structure will be emphasized. Students will also look at the cultures of Spanish-speaking countries through a variety of activities such as literature, current events, games, plays, etc. Grades will be based on tests, class work, and participation.

## Spanish III

**Credit:** 1.0

**Prerequisites:** Spanish II

**Required:** No

This course is a continuation of Spanish II. Students will expand their vocabulary and learn advanced grammar (compound and subjunctive verb tenses). The cultures of Spanish-speaking countries will be explored in conjunction with the grammar lessons. Emphasis will be placed upon oral usage of the Spanish language. Grades will be based on tests, class work, listening skills, and oral participation.

## Spanish IV

**Credit:** 1.0

**Prerequisites:** Spanish III

**Required:** No

Literature will be emphasized. Students will read selected works ranging from the classics (*Don Quixote* and *El Cid*) to contemporary works. Students will also complete a series of independent, student-chosen projects. These projects are designed to further the students' conversational abilities, oral comprehension, and usage of advanced grammar.

# TECHNOLOGY EDUCATION

## Woodworking

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

This course is designed for vocational and non-vocational students interested in woodworking as a hobby. The student will be able to safely and efficiently use tools and materials to custom manufacture a product. This student will have to pay for materials used on individual projects. The course will cover wood materials and various operations such as wood turning, case work, cabinet work, assembly techniques, hardware and finishing.

## Advanced Woodworking

**Credit:** .5

**Prerequisites:** Woodworking

**Required:** No

**Class Limit:** 18. **Fee:** Student has to pay for materials.

This course is meant to give students the opportunity to continue to develop their skills in woodworking. It will incorporate the CNC Router and to develop cabinet work assembly and finishing techniques.

## Construction Systems

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

The construction systems course provides the students with a working understanding of the key elements associated with designing, planning, and constructing a structure on-site. The principle purpose is to have the students apply and practice their knowledge of the individual building systems.

## Advanced Construction \*

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Construction Systems or Architecture Systems 2,  
or instructor approval

**Required:** No

This is an advanced construction class. Material covered will be basic practices in the erection of commercial, institutional and residential construction. Hands-on activities will focus on residential construction which may include the following: remodeling, cabinet-making as used in kitchens or bathrooms, and mechanical and home wiring systems. Students will work with a construction professional to plan and construct a project including the costing stage and actual hands on experience through to the finished project. The course may also serve as the classroom phase of a work experience for some students. Grading will be based on assignments and quizzes, ability to manage or be managed while working on the construction of the project and on the accuracy of carrying out the technical skills of the shop work.

## Intro to Metals

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

This course will provide students with a general introduction to the materials processing components of manufacturing in metals. Emphasis is placed on the development of an understanding of the six families of secondary materials processes. The activities will include metal working and welding. Grades will be based on homework, lab work, quizzes and tests.

## Advanced Metals

**Credit:** .5

**Prerequisites:** Intro to Metals

**Required:** No

**Class Limit:** 18. **Fee:** Student has to provide materials

This course will include development of skills in oxy-acetylene welding, brazing and cutting. It will include arc (shielded metal arc) welding and wire feed (metal inert gas) welding. Students will also have the opportunity to make a mold and pour a casting in the foundry unit. The skills will be used to manufacture an individual project.

## Metal Fabrication

**Credit:** .5

**Prerequisites:** Advanced Metals

**Required:** No

**Class Limit:** 18. **Fee:** Student has to provide the materials

This course offers an introduction to structural steel and plate fabrication, sheet metal fabrication, and basic electric arc and oxyacetylene welding. This course presents fabrication techniques, metal selection, layout, cutting, bending, drilling, threading, and joining. Information is presented to the student followed by lab activities to provide a hands-on experience, with an emphasis on developing an understanding of the tools, techniques, safe work habits, and application of metal fabrication skills.

## Architecture Systems I

**Credit:** .5

**Prerequisites:** None

**Required:** No

This course has been designed to give the student an understanding of good residential planning. The students will become familiar with various housing styles and create their own personal design while developing a series of plans including floor, foundation and elevations. While making the drawings, the students will become familiar with room sizes and arrangements, architectural symbols and blueprint reading. The student will also be introduced to Computer Aided Drafting (CAD) using AutoDesk Revit 2013.

## Architecture Systems II

**Credit:** .5

**Prerequisites:** Architecture Systems I, or instructor approval

**Required:** No

This course is a continuation of the Architecture Systems I drafting course. Students will draw a set of plans for a residential house. There will be a greater emphasis on quality and completeness of these plans. Greater latitude is allowed in the size and design of the house. Students will have an opportunity to do other drawing plans for a house design using Auto CAD Architecture. Students will also have an opportunity to make a presentation model of the house they designed.

## Intro to Tech Ed

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

Students will have the opportunity to work with materials, machines, and processes from many areas of the tech ed program, including drafting, designing, woodworking, welding, robotics, electricity, and more. Students may have the opportunity to produce a project that encompasses components from all areas of the program. Upon completion of the program, students will have recognized the areas of tech ed in which they would like to focus their future studies.

## Intro to Robotics and Automation

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

This is a beginning course in robotics. We will be using Robot C software and various VEX Robotics, Lego MindStorm as well as Arduino robotic systems. The objective of this course is to introduce the student to basic programming as well as problem-solving strategies. This course will involve students in the development, building, and programming of a robot or automated system. Students will work hands-on in teams to design, build, program, and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making skills, timing sequences, and propulsion systems.

## Creative Metals

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

In this course, students will work with various metals and processes to create objects that are decorative and/or functional. Students may be introduced to fabricating, welding, blacksmithing, and casting. A single dual credit option in welding may be available. This is an intro level course intended to provide the nontraditional tech ed students with an opportunity to recognize an interest in the world of metalworking.

## Media Tech

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18

Students will use software to design and produce various ways to communicate information and ideas via digital and print media. Students may have the opportunity to produce items ranging from business cards, cereal boxes, vinyl decals, T-shirts, laser-engraved plaques, and CNC engraved signs.

## Small Engines

**Credit:** .5

**Prerequisites:** None

**Required:** No

**Class Limit:** 18. **Fee:** Any parts or materials for student-owned engines

This course introduces the theory of operation, disassembly, parts checking/measuring for limitations, repairing, assembly, testing and adjusting of small 4 cycle engines used in gardening type equipment. Time will also be spent on 2-stroke cycle engines. Units to be covered include: fuel, lubrication, cooling, and electrical systems; trouble shooting, repair and parts manual use, measurement and tools testing. The major portion of the lab work will be on student supplied small engines.

## **Intro to Electronics / Electricity \***

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Sophomore

**Required:** No

**Class Limit:** 18

This course presents a survey of electricity and electronics which includes lab activities and is designed for persons wishing to know some of the basics of electricity and electronics. It is an excellent course to get into electronics or improve a skills list. The course is intended for persons where electronics will become a part of their regular occupation and a need exists to identify various electronic components and perform basic tests using test equipment such as multimeters. The course covers concepts and applications of DC and AC electricity, and some semiconductor components using basic math skills.

## **Intro to Drafting \***

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Sophomore

**Required:** No

**Class Limit:** 18

Learners will create 3D models in Inventor using a variety of feature and modify tools, analyze the volume of the models, and apply a material to determine the weight of the finished product. Students will also print solid shapes using the 3D printer. Learners will generate 2D representations of the 3D model in appropriate views and add dimensions and annotations before formatting drawings to print out.

## **Intro to Engineering \***

**Credit:** .5 (Amherst); 3 (MSTC)

**Prerequisites:** Sophomore

**Required:** No

**Class Limit:** 18

Mathematical solutions are arranged through dimensional analysis, and this process is applied to a variety of engineering situations. Life cycle cost is evaluated to determine the cost effectiveness in decision making. The Engineering Design Process is used in various hands-on projects. A variety of practical applications will enhance these fundamentals.

# Distance Learning through CESA 10

## Computer Science

### **Computer Hardware Fundamentals \***

**Credit:** .5 (Amherst); 3 (NTC)

**Prerequisites:** Sophomore standing

**Required:** No

**Host School:** Marathon

Students in Computer Hardware Fundamentals Level 1 will learn the terms, concepts and functions of personal computers, both as stand-alone devices and as networked components. Students will demonstrate knowledge, proper function, and use of computer internal and external components, system configuration, data backup, virus protection, command line and simple networks. This course can help students prepare for CompTIA's A+ Certification exams, and serves as an NTC dual credit course.

### **Game and App Programming**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

**Host School:** Marathon

This course will concentrate on building students' computational thinking skills and learning the basis of programming. This class will touch upon many new and exciting programming websites and programs. Topics include: Drag and Click/Building, Block Programming, Building Apps for an Android phone, Developing Computer Video Games, and JavaScript. This is a student-driven class, so topics can change based on student interest.

## Languages

### **American Sign Language (ASL) 1 \***

**Credit:** .5 (Amherst); NWTC (3.0)

**Prerequisites:** Sophomore standing

**Required:** No

**Host School:** NWTC

Focuses on interactions using ASL among learners who have little or no knowledge of ASL and Deaf culture. Learners will learn the skills needed to communicate comfortably in a variety of situations. Cultural information is included throughout the course. Learners will interact with the Deaf community in way that demonstrates their cultural awareness and respect. Students must have access to a device that is compatible with Respondus Lock and Panopto. Students must also have access to a DVD player. Minimum 2 students per site; maximum 20 students and/or 9 sites.

### **American Sign Language (ASL) 2 \***

**Credit:** .5 (Amherst); NWTC (3.0)

**Prerequisites:** ASL 1

**Required:** No

**Host School:** NWTC

Students will acquire additional language functions, grammar structures, cultural behaviors and conversation strategies. Challenge test available. Students must have access to a device that is compatible with Respondus Lock and Panopto. Students must also have access to a DVD player. Minimum of 2 students required at each site; maximum 20 students and/or 9 sites.

# Wisconsin Virtual School

## Art/Music/Theater

### Theater, Cinema and Film Production

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camerawork for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films, Casablanca, Singin' in the Rain, and The Wizard of Oz.

## Computer Science

### Computer Science Principles

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

How can computing change the world? What is computer science? Engage your creativity, demonstrate and build your problem solving ability all while connecting the relevance of computer science to the society! Computer Science (CS) Principles is an intellectually rich and engaging course that is focused on building a solid understanding and foundation in computer science. This course emphasizes the content, practices, thinking and skills central to the discipline of computer science. Through both its content and pedagogy, this course aims to appeal to a broad audience. The focus of this course will fall into these computational thinking practices: connecting computing, developing computational artifacts, abstracting, analyzing problems and artifacts, and communicating.

### Foundations of Game Design

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Does your love of video games motivate you to pursue a career in this field? Pursue your passion by learning about the principles of game design through the stages of development, iterative process, critiques, and game development tools. Put these new skills to work by designing your own game.

## English

### Gothic Literature

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

You will learn about the Gothic genre of literature. We will begin with a lesson about Gothic literature's place in history and society. Next we will discuss its major themes and the effect it is designed to have upon its audience. We will then look at the definitions of certain terms that are important to this genre. Lastly, we will examine various examples of works that fit this category, including both poetry and novels.

## **Mathematics**

### **AP Calculus BC +**

**Credit:** 1.0

**Prerequisites:** AP Calculus AB

**Required:** No

This course is the equivalent of an introductory college-level calculus course. In this course, students study functions, limits, derivatives, integrals, and infinite series. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics. AP Calculus BC requires use of a graphing calculator.

## **Media**

### **Journalism**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Explore a career in journalism and learn how to write a news story, a feature story, and an editorial. Throughout this course, you learn best practices for conducting research and interviews, analyzing the reliability of sources, and self-editing. This course provides a practical art credit to meet the art requirement for high school graduation.

## **Miscellaneous**

### **Criminology**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Units include an Introduction; The Body, Mind, and Soul of a Criminal; Society in the Spotlight; Stop the Violence; CEOs, Terrorists, and Mob Bosses; Hacking Gone Haywire; A World of Hurt; and Prevent, Punish or Make Peace.

### **Music Appreciation**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Description: Music is all around us. We hear it as we shop, while we drive, or even at sporting events. We attend concerts and download songs that we can listen to anywhere, through our phone or mp3 player. Yet, despite having music surround us, how often do we stop to consider how this music is made? Together, we will consider some of the basic elements of music and how they are used in different genres of music. We will discuss pitch, rhythm, dynamics, melody, and form. These elements, when combined create the music that we hear and play. Composers often aim to use them in unique and interesting ways to create original pieces of music.

## **Sports Officiating**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

## **Science/Health**

### **Child Development**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

This course provides a thorough examination of child development from conception, infancy, and toddlerhood through preschool and school age children. Physical, cognitive, emotional, and social development will be studied throughout each of these stages. The role of a positive and involved caregiver in the life of a growing child is emphasized throughout the course, as well as guides for safety and best practices. Additional topics include parenting and guiding behavior, family planning, healthy pregnancy, genetic disorders, and children with special needs. Career options that involve working with children will also be explored.

### **Early Childhood Education**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Description: Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider.

### **Health Science I: The Whole Individual**

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas. Required Materials -A video camera / recording equipment

## Health Science II: Patient Care & Medical Services

**Credit:** .5

**Prerequisites:** Sophomore standing

**Required:** No

Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staffs. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens. **NOTE: Certification Project Required. (This project is completed outside the course.) – CPR / AED / BASIC FIRST AID**

## Marine Science

**Credit:** 1.0

**Prerequisites:** Sophomore standing

**Required:** No

Since the beginning of time, humans have relied on the ocean. But as our planet continues to change over time, human activity has impacted the environment. In the marine science course, students will explore the watery depths of our own planet and understand just how vital the ocean is to our existence. Throughout the course, students will meet marine animals and see how they interact with each other and their environment. They will tour the evolving seafloor and see trenches, volcanoes, and ridges, just to name a few. Along the way, students will hang ten as they discover waves, currents, tides, and other physical interactions between the ocean and the land. Finally, students will study the impacts of chemical processes on our blue planet and how they affect the water, the atmosphere, and even our climate. With a focus on conservation, this course will show students that the ocean connects us all, across distance and even time. Hang on—it's going to be an amazing journey.

## SENIOR CREDIT CHECKLIST

*The following list of Required classes is a guideline only. Please note that students may take some classes at a different pace. Use your transcript to determine which classes you've completed.*

<u>Required</u>	<u>Freshman Year</u>	<u>Sophomore Year</u>	<u>Junior Year</u>	
<b>English</b>	Eng 9 / ELC 9	Eng 10 / ELC 10	Eng 11 / ELC 11 / Honors ELC 11	(All 3 = 3 credits)
<b>Health</b>	Health			(.5 credits)
<b>College/Career</b>	None	None	Career Planning 11	(All 2 = .5 credits)
<b>Phy Ed</b>	Phy Ed	Phy Ed	Phy Ed	(All 3 = 1.5 credits)
<b>Science</b>	Intro to Physics	Biology		(All 2 = 2 credits)
<b>Social Studies</b>	Soc Studies 9	US History I	US History II	(All 3 = 2.5 credits)
				<b>Total: 10 credits</b>

Senior Required Classes:

Eng 12 / ELC 12	Independent Living 12	Economics / Sociology	Phy Ed	(All 5 = 3 credits)
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**MATHEMATICS**    Must include one credit of Algebra.

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|-------------------------|----|----------------------|
| 1. _____ Credits: _____ | 4. | _____ Credits: _____ |
| 2. _____ Credits: _____ | 5. | _____ Credits: _____ |
| 3. _____ Credits: _____ | 6. | _____ Credits: _____ |

**CAREER AND TECHNICAL ED**    Includes any Ag, Business, College and Career Readiness, Family & Consumer Science, or Tech Ed courses.

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|-------------------------|-----|----------------------|
| 1. _____ Credits: _____ | 6.  | _____ Credits: _____ |
| 2. _____ Credits: _____ | 7.  | _____ Credits: _____ |
| 3. _____ Credits: _____ | 8.  | _____ Credits: _____ |
| 4. _____ Credits: _____ | 9.  | _____ Credits: _____ |
| 5. _____ Credits: _____ | 10. | _____ Credits: _____ |

**HUMANITIES**    Includes any Art, Music, Foreign Language, Psychology, or English courses beyond the required classes.

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|-------------------------|-----|----------------------|
| 1. _____ Credits: _____ | 6.  | _____ Credits: _____ |
| 2. _____ Credits: _____ | 7.  | _____ Credits: _____ |
| 3. _____ Credits: _____ | 8.  | _____ Credits: _____ |
| 4. _____ Credits: _____ | 9.  | _____ Credits: _____ |
| 5. _____ Credits: _____ | 10. | _____ Credits: _____ |

**SCIENCE**    Possible electives include Chemistry, Physics, Anatomy/Physiology, Forensic Science, Greenhouse Management, Forestry, etc.

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|-------------------------|----|----------------------|
| 1. _____ Credits: _____ | 3. | _____ Credits: _____ |
| 2. _____ Credits: _____ | 4. | _____ Credits: _____ |

**MISCELLANEOUS**    Possible electives include Phy Ed, PSCDS, teacher's aide, etc.

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|-------------------------|----|----------------------|
| 1. _____ Credits: _____ | 3. | _____ Credits: _____ |
| 2. _____ Credits: _____ | 4. | _____ Credits: _____ |

**Remember, 27 credits are required for graduation from AHS.**

**Total Credits Earned:** \_\_\_\_\_