

2017-2018 CURRICULUM HANDBOOK

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GRADUATION REQUIREMENTS

State law and the board of education establish minimum requirements for graduation from Amherst High School.
English Four credits which must include English 9 or 9C, 10 or 10C, 11 or 11C, and 12 or 12C.

Social Studies Three and one-half credits to include Social Studies 9, U. S. History I, U. S. History II, and Economics and Sociology.

Mathematics Three credits – to include one (1) credit of Algebra.

Science Three credits to include Intro to Physics, Intro to Chemistry and Biology.

Physical Education Two credits of Physical Education to include Phy Ed 9, 10, 11, and 12 unless excused by a licensed medical practitioner.

Health One-half credit of Health.

Vocational Education Two credits of Vocational Education to include any courses offered in Agriculture, Business Education, Family and Consumer Science, or Technology Education. Healthy Relationships & Lifestyles and Family Budgeting are required for graduation.

Humanities One credit of Humanities which include the following areas of study: Art, Music, Foreign Language, 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.

SPECIAL PROGRAMS AND OPPORTUNITIES

1. Transcribed/Dual Credit at MSTC

Students planning to attend any of the three Mid-State Technical College campuses after graduation and whose high school is in or near the Mid-State district, have the opportunity to attain transcribed credit in courses at MSTC if they complete specified courses in high school. “Transcribed credit” means that a student who begins an MSTC program may be able to bypass specified entry-level courses based on course work completed in high school. The terms of the transcribed credit procedures are included in the “articulation agreements” established between MSTC and each participating high school. Transcribed credit allows students to save money, time, and work. If students can bypass a class at MSTC, they will not have to pay tuition for that class nor complete the course work, but may select other courses to broaden their educational base or may carry a lighter load. The articulation agreements currently cover the areas of: 1) Accounting I; 2) Microsoft Office – Introduction; and 3) Horticulture 4) Written Communication 5) Oral Communication. For more information, see the counselor.

2. Advanced Placement

The Advanced Placement Program of the College Board provides the opportunity for high school students to take tests in certain academic areas. If a high school student passes an Advanced Placement test many universities will give them college credit for that course. If you are interested in this opportunity, talk to the counselor. (Note: There is a fee for the student to take these tests.)

3. Independent Study

Capable students will occasionally be allowed to pursue independent study. Permission must be obtained from the counselor, parents, and principal. If you are interested in this option, discuss your plans with a teacher and the counselor. (See Course Description)

4. Youth Options Programs

The Youth Options Programs allows 11th and 12th grade students to enroll in a technical school or university. If the courses taken satisfy high school graduation requirements, the school district will pay for tuition, fees, and books. Transportation costs may be paid. Students interested in this program must indicate so at the time they enroll for the next year. See the counselor for details.

5. Transfer Students

Students transferring to Amherst High School will have their transcripts evaluated by the principal and counselor to determine proper placement and credit requirements.

6. Alternative Education

The Alternative Education program offers students the opportunity to take classes that are not offered in our curriculum, to take advanced course work, helps students who are credit deficit for graduation and those students who require additional help in course work. Credit is given for the classes taken through the Alternative Education program. Approval of the principal, counselor, alternative education staff and parent/guardian are required to participate in this program. (Note: Space and computers are limited in this program).

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.

POSSIBLE COURSE OFFERINGS

Grade Level Required Credit

AGRICULTURE

Intro to Ag	9-12	No	1.0
Animal Science	10-12	No	.5
Dairy Science (17-18)	11-12	No	.5
Equine Science	10-12	No	.5
Farm Mechanics (16-17)	11-12	No	.5
FFA Leadership	10-12	No	.5
Adv FFA Leadership	11-12	No	.5
Horticulture I*	11-12	No	.5
Horticulture II	11-12	No	.5
Natural Resources/ Conservation	10-12	No	.5
Small Animals	10-12	No	.5

ART

Intro to Drawing	9-12	No	.5
Advanced Drawing	10-12	No	.5
Intro to Painting	9-12	No	.5
Advanced Painting	10-12	No	.5
2-D Design (17-18)	9-12	No	.5
Ceramics (18-19)	10-12	No	.5
Intro to Sculpture (17-18)	9-12	No	.5
Metals & Glass (17-18)	10-12	No	.5
Printmaking (18-19)	9-12	No	.5
Advanced Art	11-12	No	.5
AP Art History (18-19)	11-12	No	1.0

BUSINESS EDUCATION

Accounting I*	11-12	No	1.0
Bus. & Personal Law	11-12	No	.5
Business Marketing	9-12	No	.5
Family Budgeting	12	Yes	.25
Intro to Business	9-12	No	.5
Microsoft Office–Intro*	11-12	No	.5
Personal Finance	11-12	No	.5

EDUCATION FOR EMPLOYMENT

Youth Apprenticeship	11-12	No	Varies
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ENGLISH

English 9 or 9C		Yes	1.0
English 10 or 10C		Yes	1.0
English 11 or 11C		Yes	1.0
English 12 or 12C		Yes	1.0
AP Lit & Comp +	12	No	1.0
Dramatic Lit (18-19)	9-12	No	.5
Popular Literature	9-12	No	.5
Writers Workshop	9-12	No	.5
Dual Credit Oral Com*	11-12	No	.5
Dual Credit Written Com*	11-12	No	.5

FAMILY AND CONSUMER SCIENCE

Healthy Relationships and Lifestyles	12	Yes	.25
Beginning Foods	9-12	No	.5
Food and Wellness	10-12	No	.5
Food and Culture	10-12	No	.5
Food Service	11-12	No	.5

Grade Level Required Credit

FAMILY AND CONSUMER SCIENCE (continued)

Clothing Construction	9-12	No	.5
Adv Clothing Const	10-12	No	.5
Hobbies & Crafts	9-12	No	.5

HEALTH

Wellness & Personal Health	9	Yes	.5
Health Education	10	Yes	.5

MATHEMATICS

Pre-Algebra		***	1.0
Beginning Algebra		***	1.0
Intermediate Algebra		***	1.0
Practical Algebra		***	1.0
Advanced Algebra		No	1.0
Practical Advanced Algebra		No	1.0
Geometry		No	1.0
Practical Geometry		No	1.0
Trigonometry		No	.5
Practical Trigonometry		No	1.0
Pre-Calculus		No	.5
Calculus	11-12	No	.5
AP Calculus +	11-12	No	1.0
Statistics	11-12	No	.5
AP Statistics +	11-12	No	1.0

MEDIA

Desktop Publishing	9-12	No	.5
Film Studies A	9-12	No	.5
Film Studies B	9-12	No	.5
Intro to Media	9-12	No	.5
Photography	9-12	No	.5
Digital Literacy	9-12	No	.5
Yearbook	9-12	No	.5

MUSIC

Band	9-12	No	.25
Choir	9-12	No	.25
Band & Choir	9-12	No	.25

OTHER

Project Based Learning	9-12	No	.5
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PHYSICAL EDUCATION

Phy Ed 9, 10, 11, and 12		Yes	.5
Weight Training	10-12	No	.25

SCIENCE

Intro to Physics	9	Yes	1.0
Intro to Chemistry	10	Yes	.5
Biology	10	Yes	1.0
Advanced Biology	11-12	No	1.0
Chemistry	11-12	No	1.0
Physics	11-12	No	1.0
Anatomy/Physiology	11-12	No	1.0
Environmental Studies	11-12	No	1.0

	<u>Grade Level</u>	<u>Required</u>	<u>Credit</u>
SCIENCE (continued)			
Forensic Science	11-12	No	1.0
PLTW – Prin of			
Biomedical Science	11-12	No	1.0
Horticulture I	11-12	No	.5
Animal Science	10-12	No	.5
Small Animals	10-12	No	.5
SOCIAL STUDIES			
Social Studies 9	9	Yes	.5
U.S. History I	10	Yes	1.0
U.S. History II	11	Yes	1.0
Economics	12	Yes	.5
Sociology	12	Yes	.5
Psychology	9-12	No	.5
AP Psychology +	10-12	No	1.0
Honors U.S. History +	11-12	No	1.0
History in Movies	9-12	No	.5
Local History	9-12	No	.5
World History	9-12	No	.5
World War II History	9-12	No	.5
SPANISH (must be taken in order)			
Spanish I		No	1.0
Spanish II		No	1.0
Spanish III		No	1.0
Spanish IV		No	1.0
TECHNOLOGY EDUCATION			
Construction	9-12	No	.5
Advanced Construction	10-12	No	.5
PLTW – Intro to			
Engineering Design	9-12	No	1.0
PLTW – Principles of			
Engineering	10-12	No	1.0
Electronic Systems	9-12	No	.5
PLTW – Digital			
Electronics	10-12	No	1.0
Intro to Metals	9-12	No	.5
Advanced Metals*	10-12	No	.5
Architecture Systems I	9-12	No	.5
Architecture Systems II	10-12	No	.5
Power Systems	9-12	No	.5
Woodworking	9-12	No	.5
Advanced Woodworking	10-12	No	.5

*Identifies Transcribed Credit Course at MSTC

+Identifies Advanced Placement Courses

AGRICULTURE

Introduction to Agriculture

Credit: 1
Required: No
Prerequisite: None

This is a course designed for first year agriculture students. The emphasis is on Agriculture Careers, plant science, forestry, FFA, SAE, parliamentary procedure, meats and wildlife habitat. There will be classroom work, outdoor work, and lab work with special emphasis on FFA and projects.

Animal Science

Credit: 1/2
Required: No
Prerequisite: Sophomore standing

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.

Dairy Science

Offered in 2017-2018 (and alternate years)
Credit: 1/2
Required: No
Prerequisite: Junior standing

The study of dairy animals emphasizes careers in the area, breeding cattle, selection, judging, and feeding of dairy cattle. The class will also discuss reproduction, milking practices and marketing dairy products. The major portion of the class will be spent in the classroom and visit sites dealing with dairy production.

Farm Mechanics

Offered in 2018-2019 and alternate years
Credit: 1/2
Required: No
Prerequisite: Junior standing

Farm machinery deals with the careers in the area, types of machinery, operating machinery, safety, trends in machinery, controls and applications. This will be oriented toward classroom, shop, and work with machines in the outdoor classroom. Some time will be spent studying machines and some on working with machines to learn proper use of machines in a farming operation. Farm Machinery will, for some students, be the classroom phase of a work experience program. This course plus enrollment in the related coop class is a requirement for any student that participates in the Cooperative Programs offered in vocational areas. Cooperative Programs are those programs in which a student attends school part time and works at a training site part time.

FFA Leadership/Officer Training

Credit: 1/2
Required: No
Prerequisite: Sophomore standing and FFA member

This course is designed for any Sophomore, Junior, or Senior FFA student. Leadership training will be essential along with involving the FFA program of work. Students will be working toward awards for State and National recognition. This will include Chapter Awards as well as individual awards such as Proficiencies and State FFA Degrees.

Advanced FFA Leadership

Credit: 1/2
Required: No
Prerequisite: FFA Leadership

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.

Equine Science

Credit: 1/2
Required: No
Prerequisite: Sophomore Standing

In the Equine Science class, students will learn all about horses. We will take a look at the history of the horse, horse breeds, horse colorations and patterns, vices, diseases, care, management, safety, judging, and showing. A trail ride will take place toward the end of the term.

Horticulture I *

Credit: 1/2
Required: No
Prerequisite: Junior standing

This course 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 and outdoor classroom working with various plant materials. FFA projects in this area will be encouraged.

Horticulture II

Credit: 1/2
Required: No
Prerequisite: Horticulture I and Junior standing

The emphasis will be on greenhouse management, producing, pricing and selling a product. Other units include landscaping, lawn care, gardening, and growing small fruits. This is a classroom and lab course with much of the time spent in the greenhouse raising marketable plants.

Natural Resources/Conservation

Credit: 1/2
Required: No
Prerequisite: Sophomore standing

Our natural resources serve us best when we understand the importance, conservation and the management of each. We will cover several resources – soil, water, air, plants, and animals. We will cover plants such as trees of our world's forests, prairies, and wetlands. Animals we will cover include wildlife such as furbearing mammals, game birds, and fish for a partial list. Consideration of providing and maintaining essential habitat for all of these species is included. The goal of this class is for students to acquire the knowledge and skills necessary for conserving and sustaining our natural resources.

Small Animals

Credit: 1/2
Required: No
Prerequisite: Sophomore Standing

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.

*These classes are part of the articulation agreement with MSTC and may be used for credit in some courses at MSTC.

ART

Introduction to Drawing

Credit: 1/2
Required: No
Prerequisite: None

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. Intro and Advanced Drawing will often be taught at the same time, so please be aware that other students will be working on other projects. Only enroll in this course if you have NOT taken any drawing classes in high school. If you have taken Drawing A or B, please enroll in Advanced Drawing. ***Please note: A course fee of \$4 for a set of your own drawing pencils and erasers will be charged.***

Advanced Drawing

Credit: 1/2
Required: No
Prerequisite: Intro to Drawing, Drawing A OR Drawing B

In this course you will be building on your basic drawing skills on a more independent basis. You will add practice to the drawing media used before, as well as add more of a conceptual backing to your drawings. Intro and Advanced Drawing will often be taught at the same time, so please be aware that other students will be working on other projects. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes. Only enroll in this course if you have taken Introduction to Drawing, or Drawing A or B. ***Please note: A course fee of \$4 for a set of your own drawing pencils and erasers will be charged.***

Introduction to Painting

Credit: 1/2
Required: No
Prerequisite: None

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. Intro and Advanced Painting will often be taught at the same time, so please be aware that other students will be working on other projects. Your grade will be determined by your main projects, sketchbook assignments, and small vocabulary/technique quizzes. Only enroll in this course if you have NOT taken any painting classes in high school. If you have taken Painting A or B, please enroll in Advanced Painting. ***Please note: A course fee of \$5 for a set of your own paintbrushes will be charged.***

Advanced Painting

Credit: 1/2
Required: No
Prerequisite: Intro to Painting, Painting A, OR Painting B

In this course you will be building on your basic painting skills on a more independent basis. You will add practice to paints used before such as oil, acrylic, and watercolor, as well as add more of a conceptual backing to your paintings. Intro and Advanced Painting will often be taught at the same time, so please be aware that other students will be working on other projects. Your grade will be determined by your main projects, preparatory sketches, and small vocabulary/technique quizzes. Only enroll in this course if you have taken Introduction to Painting, or Painting A, or Painting B. ***Please note: A course fee of \$5 for a set of your own paintbrushes will be charged.***

Two-Dimensional Design

Credit: 1/2
Required: No
Prerequisite: None
Note: Offered every other year – will be offered in 2017-2018

This course focuses on the elements of art and the principles of design in a commercial perspective. You will explore topics in packaging as well as product design, cut paper Polish folk art, as well as others. Materials you will experience will include drawing, painting, scratch-art, and plywood puzzles. 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: 1/2
Required: No
Prerequisite: Sophomore standing or above
Note: Offered every other year – will be offered in 2018-2019

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. You may enroll in this class if you have taken one or both of 3-D Design A or B.

Introduction to Sculpture

Credit: 1/2
Required: No
Prerequisite: None

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. Please only enroll in this course if you have **NOT** taken 3-D Design A or B, or only have taken one. If you have taken both, take Metals or Ceramics!

Metals and Glass

Credit: 1/2
Required: No
Prerequisite: Sophomore standing or above
Offered every other year – will be offered in 2017-2018

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 of Ceramics. You may enroll in this class if you have taken one or both of 3-D Design A or B.

Printmaking

Credit: 1/2
Required: No
Prerequisite: None
Note: Offered every other year – will be offered in 2018-2019

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.

Advanced Art

Credit: 1/2

Required: No

Prerequisite: A grade of "A-" or better in the subject in which the advanced study is being taken, and consent of instructor.

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.

AP Art History+

Credit: 1/2

Required: No

Prerequisite: Junior or Senior Standing

Note: Offered every other year – will be offered in 2018-2019

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 through different media of artwork. 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 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

Accounting I *

Credit: 1 (Amherst)

4 (MSTC)

Required: No

Prerequisite: Junior or Senior standing **AND** consent of the instructor

This course will be transcribed with MSTC, meaning you will receive dual credit (both Amherst and MSTC) upon successful completion of this semester long course. Your grade will appear on your MSTC transcript permanently.

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: 1/2

Required: No

Prerequisite: Junior or Senior standing

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.

Business Marketing

Credit: 1/2
Required: No
Prerequisite: 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 4 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.

Family Budgeting

Credit: 1/4
Required: Yes
Prerequisite: Seniors only

Family Budgeting is a required course for seniors. This is a condensed finance course and does not cover any topics that are found in the Personal Finance course offering. Whereas Personal Finance focuses on the individual, Family Budgeting focuses on the broader, bigger concept of how financial well-being is related to healthy living, better relationships, accomplishing goals, and enjoying a more positive fulfilling life with fewer complications.

Topics covered include: Financial and career planning, money management strategies, consumer purchasing and protection, housing/renting, health/disability/life insurance, and retirement/estate planning. Computer integration with real-life activities will happen throughout this course. This includes completing online course modules.

Intro to Business

Credit: 1/2
Required: No
Prerequisite: 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 and marketing, finance, personnel, and management in business operations. A business simulation will take place that will tie together the business principles that are learned. The simulation will be a model business community with students managing individual businesses. A field trip to a local business will be part of this course.

Microsoft Office-Introduction*

Credit: 1/2 (Amherst)
3 (MSTC)
Required: No
Prerequisite: Junior or Senior standing

This course will be transcribed with MSTC, meaning you will receive dual credit (both Amherst and MSTC) upon successful completion of this quarter long course. Your grade will appear on your MSTC transcript permanently.

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: 1/2

Required: No

Prerequisite: Junior or Senior standing

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.

EDUCATION FOR EMPLOYMENT

Youth Apprenticeship Program

Credit: Varies

Prerequisite: Junior or Senior Standing

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; process-oriented writing projects, and speaking experiences.

College Preparatory English: Students taking designated courses can expect an elevated grading scale, a brisk learning pace, strong competition, and high performance expectations. Students in these classes should expect daily homework, more extensive writing projects, challenging literature, and, at least on the 12th grade level, assignments that simulate college level requirements. The English Department strongly recommends that college-bound students enroll in recommends Modern Literature, Literary Classics, Advanced Composition, and College Prep Skills. College-bound students should also consider participating in activities associated with the English Department such as Forensics, and One Act.

English 9

Credit: 1

Required: Yes or English 9C

Prerequisite: None

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.

English 9C

Credit: 1

Required: Yes or English 9

Prerequisite: None

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

Required: Yes or English 10C

Prerequisite: Sophomore standing

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.

English 10C

Credit: 1

Required: Yes or English 10

Prerequisite: Sophomore standing

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

Required: Yes or English 11C

Prerequisite: Junior standing

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.

English 11C

Credit: 1

Required: Yes or English 11

Prerequisite: Junior standing

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.

English 12

Credit: 1

Required: Yes or English 12C

Prerequisite: Senior standing

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.

English 12C

Credit: 1

Required: Yes or English 12

Prerequisite: Senior standing

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.

AP Literature and Composition

Credit: 1

Required: No

Prerequisite: Senior Standing

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.

Dramatic Literature

Credit: 1/2

Required: No

Prerequisite: No

Offered Every Other Year: 2018-2019

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.

Popular Literature

Credit: 1/2

Required: No

Prerequisite: None

In this course, students will be given the opportunity to have a voice in the selection of the literature they are required to read. For instance, depending on student interest, the class may explore themes and genres of literature such as sports literature, outdoor literature, or science fiction. Class time will be spent reading, examining, and discussing the selected literature in terms of theme, style, and other literary elements. Students will also complete projects and presentations, which enhance their understanding of what they have read.

Readers Workshop

Credits: 1/2
Required: No
Prerequisite: None

Readers Workshop is an elective reading course designed for students who enjoy books based on their own interests, reading ability, and reading speed. Details such as the number of books to be read per term and minutes per class period will be pre-determined per contract between teacher/student. Evaluation will include formative assessment such as book discussions, reflective writing, reading quizzes; and summative assessments such as final projects and final tests.

Writers Workshop

Credit: 1/2
Required: No
Prerequisite: None

Do you enjoy writing? Do you like to work at your OWN pace on projects that YOU devise? Try the Writers Workshop! This class will be designed to give you time to develop your own writing projects – whether it's comic books, reviews, poetry, fiction, screenplays, biographies, how-to's, etc. YOU CHOOSE! Each student will develop a contract with specific projects, goals, publishing criteria, and assessment tools.

Oral Communication*

Credit: 1/2
Midstate: 3 credits
Required: No
Prerequisite: Junior or Senior standing

This course will be transcribed with MSTC, meaning you will receive dual credit (both Amherst and MSTC) upon successful completion of this quarter long course. Your grade will appear on your MSTC transcript permanently. Dual Credit provides both high school and college credit through Mid-State Technical College. This course is a requirement for most MSTC degrees. You will earn 3 college credits for this course, and enter college ahead in your credit load at no cost to you.

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.

Written Communication *

Credit: 1/2
Midstate: 3 credits
Required: No
Prerequisite: Junior or Senior standing

This course will be transcribed with MSTC, meaning you will receive dual credit (both Amherst and MSTC) upon successful completion of this quarter long course. Your grade will appear on your MSTC transcript permanently. Dual Credit provides both high school and college credit through Mid-State Technical College. This course is a requirement for most MSTC degrees. You will earn 3 college credits for this course, and enter college ahead in your credit load at no cost to you.

Written Communication focuses on the writing process. A variety of written communication elements will be examined including format, graphics, and layout. To do this, various technical writing projects are explored: academic research paper, business analytical report, business proposal, directives, and formal correspondence.

FAMILY AND CONSUMER SCIENCE

Healthy Relationships and Lifestyles

Credit: 1/2

Required: Yes

Prerequisite: Senior Standing

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 egg baby project, group discussion, homework assignments and daily notebook completion.

Beginning Foods

Credit: 1/2

Required: No

Prerequisite: None

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.

Food and Wellness

Credit: 1/2

Required: No

Prerequisite: Beginning Foods and Sophomore standing

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, student demonstrations, DVDs, and quizzes.

Food and Culture

Credit: 1/2

Required: No

Prerequisite: Beginning Foods, Food and Wellness and Sophomore standing.

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.

Food Service

Credit: 1/2

Required: No

Prerequisite: Foods and Wellness, Food Culture and Junior standing

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.

Clothing Construction

Credit: 1/2
Required: No
Prerequisite: None

Students learn to sew a garment from a commercial pattern. It is highly recommended for anyone interested in the fashion industry. Students learn about textiles and how to choose the right fabric for a sewing project. Students will learn how to measure and fit patterns, how to read pattern information, as well as create basic sewing samples before sewing their garment. We take a field trip to a local fabric store to purchase materials for the major sewing project. The majority of the class time will be spent on independently sewing a garment. Service learning is also part of the class as students make and donate hats to a charity as well as assist in a sewing project for the kindergarten classes.

Advanced Clothing Construction

Credit: 1/2
Required: No
Prerequisite: Clothing Construction and teacher approval

This is an independent class for experienced sewers. A minimum of two clothing projects will be sewn unless completing another mutually agreed upon project like a quilt or a more involved article of clothing. Projects for this class will be arranged through a written contract with the instructor. The contract will describe specific goals, projects, and timelines. Any materials needed for the class must be provided by the student. Failure to complete the contract obligations will result in no credit. Participation in the class will depend on availability of the sewing room and machines.

Hobbies & Crafts

Credit: 1/2
Required: No
Prerequisite: None

This project based class emphasizes inexpensive fiber, paper, and wood arts as part of hobby and leisure time activities. Crafts taught include knitting, 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.

HEALTH

Wellness and Personal Health 9

Credit: 1/4
Required: Yes
Prerequisite: None

Students are introduced to the personal and social health issues that arise in the high school years. Students evaluate their individual social and emotional wellness and look at methods to become successful young adults/students while dealing with the pressures of high school. Students will evaluate traits and habits of highly successful people to develop insight into what behaviors contribute to success.

Health Education

Credit: 1/2
Required: Yes
Prerequisite: Sophomore standing

The course seeks to present a body of knowledge and understanding of materials which is pertinent to the students in our area. The development of health values and health maintenance is an important part of our health curriculum. The course deals with personality development, family health, roles of men and women, and changes which occur in our society. Sections on mental health, dealing with feelings, depression, stress and also the development of healthy outlets are an important aspect of the course.

The information is given to students through lecture, discussion, lab work (especially in first aid), research papers, films, posters and textbooks. Special activities include a field trip. Assignments, research papers and tests along with attendance, participation and interest are the means for grading students.

MATHEMATICS

***It is highly recommended that college-bound students complete BOTH Advanced Algebra AND Geometry**

For the general track to follow with math courses, please see the flow chart at the back of this book.

Pre-Algebra

Credit: 1
Required: No
Prerequisite: None

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

Beginning Algebra

Credit: 1
Required: Yes
Prerequisite: Pre-Algebra or Middle School Recommendation
Prerequisite for Beginning Algebra B: A passing grade in Beginning Algebra A

Beginning Algebra is a two-term course designed to introduce the student to the topics needed to go into the upper level Algebra courses. This course is recommended for students who plan to attend college and who desire challenging preparatory course work. It stresses 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.

Intermediate Algebra

Credit: 1
Required: No
Prerequisite: Beginning Algebra

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.

Practical Algebra

Note: This course is not recommended if you are planning on attending a four-year college

Credit: 1
Required: No
Prerequisite: Beginning Algebra and **consent of Mr. Anderson or Mrs. Swanson**

Practical Algebra is a two-term class that expands on topics introduced in Beginning Algebra. We will review topics from Beginning Algebra plus learn how to graph quadratic, linear, inverse, and rational equations. Other topics that will be discussed are matrices, systems of equations, and polynomial expressions. Grades will be determined by tests, quizzes, and daily work.

Advanced Algebra

Credit: 1
Required: No
Prerequisite: Intermediate Algebra

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.

Practical Advanced Algebra

Note: This course is not recommended if you are planning on attending a four-year college

Credit: 1

Required: No

Prerequisite: Practical Algebra and **consent of Mr. Anderson or Mrs. Swanson**

Practical Advanced Algebra is a two-term course that expands on the topics introduced in Intermediate Algebra. This course will move at a slower pace than advanced 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.

Geometry

Credit: 1

Required:

Prerequisite: Intermediate Algebra

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.

Practical Geometry

Note: This course is not recommended if you are planning on attending a four-year college

Credit: 1

Required:

Prerequisite: Practical Algebra or Advanced Practical Advanced Algebra and **consent of Mr. Anderson or Mrs. Swanson**

This course will include a study of the basic properties of plane figures. They include lines, planes, angles, polygons, transformations, congruence, applications, size, similarity transformations, circles, areas, perimeters, surface area, and volume. Through these concepts we will finish with looking at descriptive geometry. Descriptive Geometry is being able to discover true length lines and true size and shape surfaces from foreshorten figures in multi-view drawings.

Trigonometry

Credit: 1/2

Required: No

Prerequisite: Advanced Algebra and Geometry

Trigonometry is a one-term course whose study is of angles, vectors, and triangles using the six trigonometric functions and existing formulas. Practical applications using surveying and other measuring equipment will be included. Scientific calculators will be used to assist in problem solving. Grades are determined by a combination of tests, quizzes, and daily work.

Practical Trigonometry

Note: This course is not recommended if you are planning on attending a four-year college

Credit: 1

Required: No

Prerequisite: Practical Advanced Algebra

With the Practical Advanced Algebra course moving at a slower pace, this course will include one additional term of Advanced Algebra coursework and then move into Trigonometry for one-term. The Trig course is the study of angles, vectors, and triangles using the six trigonometric functions and existing formulas. Practical applications using surveying and other measuring equipment will be included. Scientific calculators will be used to assist in problem solving. Grades are determined by a combination of tests, quizzes, and daily work.

Pre-Calculus

Credit: 1/2

Required: No

Prerequisite: Advanced Algebra and Geometry

Pre-Calculus is a one term course designed to look at the advanced mathematics that leads into a college calculus course. Functions, notation, and graphing are stressed in the first part. Exponential functions, limits, slopes, and maximum and minimum values make up the second part of the course. A first look at Calculus rounds out the study. Grades will be determined by test scores, daily work, and class participation.

Calculus

Credit: 1/2

Required: No

Prerequisite: Advanced Algebra

Calculus is a one-term course designed to study the rate of change of functions. Limits are studied in order to bridge the gap between pre-calculus mathematics and calculus. Graphing techniques are studied to explain the concept of calculus. The derivative of a function is introduced and applications in business, physics, and economics are studied extensively. Simple integration techniques are also introduced. The course is taught using a college textbook. Grades are determined through combinations of test scores, quiz scores, and daily assignment scores.

AP Calculus+

Credit: 1/2

Required: No

Prerequisite: Advanced Algebra

Honors Calculus is a semester-long course designed to give the students the knowledge of the material found on an Advanced Placement Calculus AB Exam. More complex integration techniques with transcendental functions are taught. Applications of integration involving area, volume, approximating roots, and finding the zeros of a function are studied. Previous AP Exams are completed and analyzed. Grades are determined by the completion of assignments, practice tests, and the most recently released AP Exam.

Statistics

Credit: 1/2

Required: No

Prerequisite: Trig and Pre-Calc

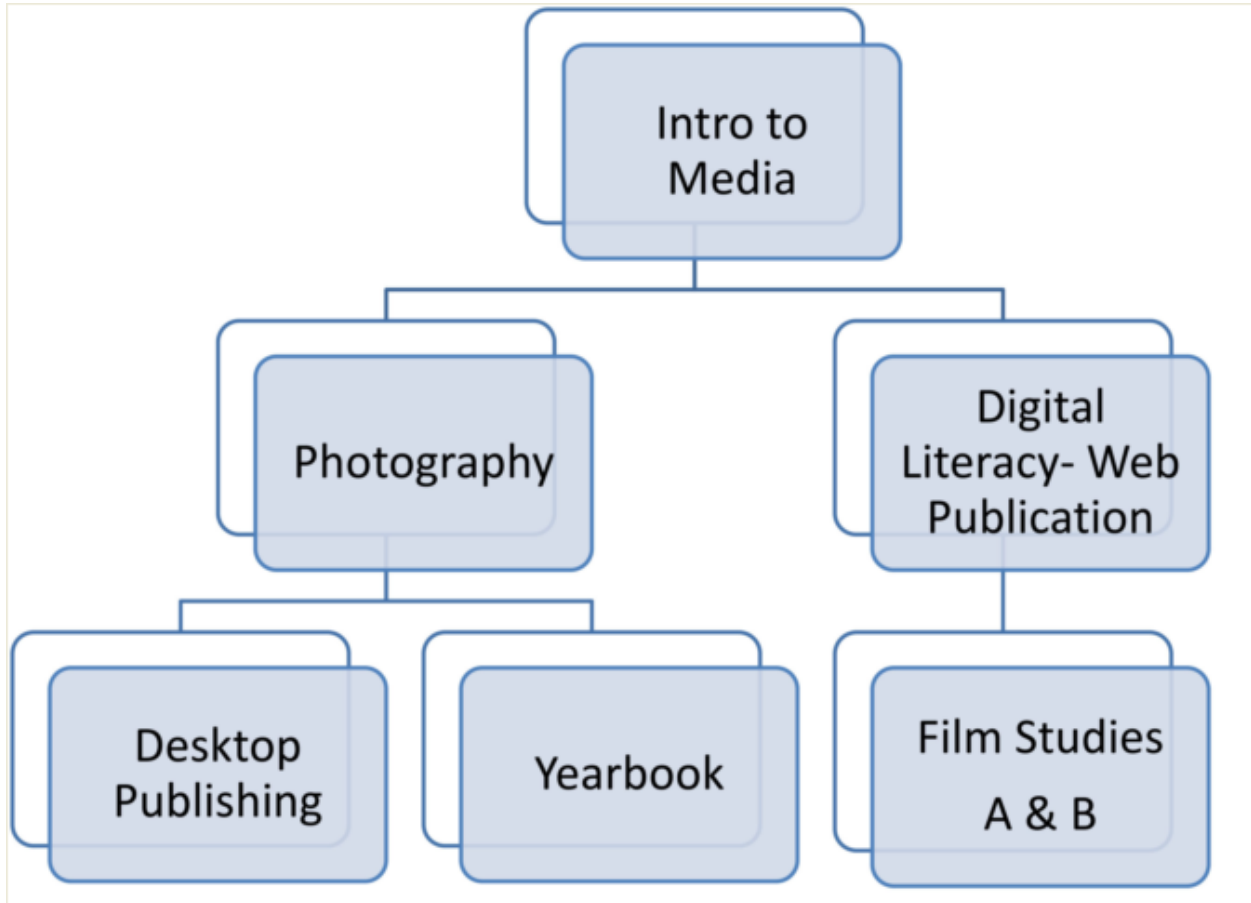
Students will learn how to collect, organize, display and interpret data and information. Students will also learn basic elementary probability skills and how to apply it to data. This is a college-prep course.

AP Statistics+

Credit: 1
Required: No
Prerequisite: Stats

Students will continue with advanced topics in Statistics. This course is an extension of Statistics and will prepare students for the AP Statistics Test. Grades will be determined by scores achieved on the practice tests and on the AP Test itself (if taken).

MEDIA
Course Sequence Flowchart



Desktop Publishing –Graphic Design

Credit: 1/2
Required: No
Prerequisites: Photography or Intro to Media strongly recommended.

CLASS LIMIT: 18

This is an advanced offering. Photography or Intro to Media are highly recommended prior to taking this class. 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.

Film Studies A

Credit: 1/2
Required: No
Prerequisites: None

This course has been designed to promote media literacy by introducing students to a sampling of the films the American Film Institute regards as the top 100 films of the last century. Students will study the characteristics of various film genres (Western, Thriller Coming of Age, etc.) within a social and cultural context, and will come to recognize film as an important part of the language environment in which they have grown up. Student assessment will be based on viewing guides/activities, discussion participation, tests, essays, projects, and contributions to an ongoing film history timeline.

Film Studies B

Credit: 1/2
Required: No
Prerequisites: None (**You do not need to take A to take B**)

This course has been developed to enhance the way students view film. Typically regarded by students as entertainment, film is a complex medium that can be “read” much the same way a good book can be read. In the study of a variety of films, students will develop more critical viewing skills that will promote their ability to appreciate film as an art form that can be analyzed on literary, dramatic, and cinematic/technical levels. Student assessment will be based on viewing observation exercises, discussion contributions, tests, essays, and projects.

Intro to Media

Credit: 1/2
Required: No
Prerequisite: None

Class Size Limit = 18
Open to grades 9-12

This should be the first course a student takes within the Media department. This one term, workshop- format class is designed to give students background on the history, social implications, and techniques involved in digital photography, sound/slide production programming, and audio/video programming. Students will create a series of projects in class that reflect technical proficiency and demonstrate understanding of key concepts. Project based work in this course relies heavily on the use of technology and is limited in size due to required equipment resources.

Photography – Photoshop

Credit: 1/2
Required: No
Prerequisites: None, though Intro to Media would be helpful

CLASS LIMIT: 20

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.

Digital Literacy- Web Publishing

Credit: 1/2
Required: No
Prerequisites: None

CLASS LIMIT: 18

In this course students will be introduced to major concepts in Digital Literacy 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 You Tube, and Webpage design & management. Students will complete a number of 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 (if taken opposite of Band or Choir you will need to take this for the entire semester to earn the .25 credit)

Required: No

Prerequisites: Photography, Media, or Graphic Design **AND** Instructor Permission **CLASS LIMIT: 10**

Meets 3rd period – may be taken opposite of Band or Choir

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: 1/4 (per term)

Required: No

Prerequisite: None

The High School Band is designed to continue the Middle School Band experience. Study will emphasize the following: 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 (5 boys - 5 girls). The band also has 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 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 \$15.00 per year for those using school instruments and those that may be required for purchase of method books to be used in class.

Choir

Credit: 1/4 (per term)

Required: No

Prerequisite: None

The High School Choir is designed to continue the Junior High Choir experience. Study will emphasize the following: 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.

OTHER

Employability Skills

Credit: 1/2

Required: Yes

Prerequisite: Sophomores only

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.

Project-Based Learning

Credit: 1/2

Required: No

Prerequisite: Junior or Senior Standing

This is a course that meets the needs of the motivated learner with an interest or passion in any content area. If you wish to research a question or want to study a real-world problem, if you want to examine a possible career path or put together a learning portfolio, this course may be for you.

PHYSICAL EDUCATION

Credit: 1/2

Required: Yes

Prerequisite: None

The Physical Education curriculum is organized to provide Amherst students a balanced program of activities which meets the various goals of the Physical Education Department: regular exercise, opportunity to participate in individual, dual 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 9, 10, 11, and 12 will consist of a variety of activities as listed below. Activities will depend upon use of indoor/outdoor facilities, time of year and class size.

Badminton	Basketball	Weight Lifting
Bowling	Team Handball	Cross Country Skiing
Fitness Testing	Soccer – indoor soccer	Softball
Golf	Tennis	Flag Football
Speed-A-Way	Floor Hockey	Volleyball

Weight Training

This course DOES NOT take the place of Phy Ed 9 - 12

Credit: 1/4 (course that meets every other day)

Required: No

Prerequisite: Successfully completed PE 9 and Sophomore standing or above

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

Introduction to Physics

Credit: 1
Required: Yes
Prerequisite: None

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

Introduction to Chemistry

Credit: 1/2
Required: Yes
Prerequisite: None

This course offers an introduction to the basic concepts of chemistry such as atomic structure, chemical reactions, and conservation of energy. Earth science concepts such as the role of water, weather and climate 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
Required: Yes
Prerequisite: Physical Science

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.

Advanced Biology

Credit: 1
Required: No
Prerequisite: Biology

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
Required: No
Prerequisite: Physical Science, Biology, Advanced Algebra or Geometry, & recommended to be Junior standing
MUST HAVE A CALCULATOR

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

Required: No

Prerequisite: Physical Science, Advanced Algebra or Geometry, and Junior standing
MUST HAVE A CALCULATOR

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

Required: No

Prerequisite: Junior or Senior standing; "B" or higher in Biology

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/or biological changes brought about by exercise and conditioning.

Environmental Science

Credit: 1

Required: No

Prerequisite: Biology

Environmental Studies is the study of the interaction of man and the biosphere, with an emphasis on land ecosystems. The following topics will be covered: ecology, food chains and food webs, predators, flow of energy in ecosystems, nature's cycles, succession and pollution of the atmosphere. The use of newspaper articles and their analysis will be used to discuss current issues in conservation. Grading is based on laboratory work, study guides, tests, and written reports. The Internet will be used to research current topics.

Forensics Science

Credit: 1

Required: No

Prerequisite: Biology

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.

PLTW -- Principles of Biomedical Science

Credit: 1

Required: No

Prerequisite: Junior standing

This course combines biology, human physiology and medicine. Students will explore all these areas to determine the cause of death of a fictitious person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments. The course will include advanced scientific laboratory techniques, creative problem solving and in-depth investigation of the role of science in medicine.

SOCIAL STUDIES

Social Studies 9

Credit: 1/2
Required: Yes
Prerequisite: None

Social Studies 9 is a one-term course to be taken by freshmen. Topics will include the following: Current events and political cartoons; a history of the Supreme Court and its landmark cases; an introduction to economics; and Social Studies Technical Skills – a look at using critical thinking skills to interpret social studies tools such as charts and maps.

This course is a prerequisite to United States History. Grading is based on projects, class participation, group work, unit assignments, tests, term projects and other instructor requirements.

U. S. History I

Credit: 1
Required: Yes
Prerequisite: Social Studies 9

US History IA 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.

US History IB 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.

U. S. History II

Credit: 1
Required: Yes
Prerequisite: U. S. History I

U.S. History IIA 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.

U.S. History IIB 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 40's, 50's and 60's 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.

Economics

Credit: 1/2
Required: Yes
Prerequisite: Senior Standing

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: 1/2
Required: Yes
Prerequisite: Senior Standing

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.

Psychology

Credit: 1/2
Required: No
Prerequisite: None

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.

AP Psychology +

Credit: 1
Required: No
Prerequisite: Junior or Senior standing (Sophomores with instructor approval)

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.

Honors U.S. History +

Credit: 1
Required: No
Prerequisite: Junior or Senior standing

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 appreciation of United States history. Second, it is to 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.

History in Movies

Credit: 1/2
Required: No
Prerequisites: None

This class will strive to bring the study of history to life with the use of film 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 periods of time we can study include: *Andersonville* – Civil War; *Mississippi Burning* – Civil Rights Era; *All the President's Men* – Watergate; *13 Days* – The Cuban Missile Crisis; *Gandhi* – India; *The Pianist* – World War II; *A Night to Remember* – Titanic.

Local History

Credit: 1/2
Required: No
Prerequisite: Independent Learner

Local History is a one term elective course. Created for the independent learner, we will study different aspects of Amherst, Portage County and Wisconsin history. Potential topics include, The Development of Portage County, Cemetery History, Norwegians of Nelsonville, Amherst History, A Civil War Story, Railroad History, Logging History, Maritime History, Harry Houdini, and Personal Genealogy. Students will conduct research to create an independent project that highlights our local areas. Field trips will enhance our areas of study, and projects and assignments will be completed to evaluate learning.

World History

Credit: 1/2
Required: No
Prerequisite: None

This social studies class is a one-term elective course. You will be introduced to important themes of world history. The intent of the curriculum is to help students learn more about ancient civilizations and how they have influenced the development of the modern world. Students will work independently, as well as in groups to do things such as conduct research, participate in computer simulations, and create projects. Grades will mostly be based on independent assignments, projects, class participation, and tests or quizzes.

Depending on the pace of the class, areas of potential study include:

- World Geography
- World Religions
- The Stone Ages
- The Rise of India ancient past to present
- Women in World History
- Revolutions
- The Seven Wonders of the World
- World Governments
- Ancient Civilizations: Egypt, China, Greece and Rome
- The Islamic World
- Imperialism

World War II History

Credit: 1/2
Required: No
Prerequisite: None

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 in it and a better understanding of what it means to be an American.

SPANISH

Spanish I

Credit: 1
Required: No
Prerequisite: None

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
Required: No
Prerequisite: Spanish I

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
Required: No
Prerequisite: Spanish II

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
Required: No
Prerequisite: Spanish III

Literature will be emphasized. Students will read selected works ranging from the classics (Don Quijote 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

Construction Systems

Credit: 1/2
Required: No
Prerequisite: None

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: 1/2

Required: No

Prerequisite: Construction Systems or Architecture Systems 2, or Instructor's Approval

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.

PLTW – Introduction to Engineering Design

Credit: 1

Required: No

Prerequisite: None

This course teaches students problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using the solid modeling computer design software, Inventor. This course also provides a background in drafting fundamentals through lecture, demonstration and hands-on experiences for developing drafting skills and techniques. Milwaukee School of Engineering credit is optional by completing the national exam and a \$65 service fee to MSOE.

PLTW – Principles of Engineering

Credit: 1

Required: No

Prerequisite: Introduction to Engineering

This course helps students understand the various fields of engineering/engineering technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political impacts of technological change. Students may earn three (3) Gateway Technical College credits with a B grade or better in this course and passing the PLTW end of course assessment. Milwaukee School of Engineering credit is optional by completing the national exam and a \$65 service fee to MSOE.

Electronic Systems

Credit: 1/2

Required: No

Prerequisite: None

Class limit: 18

This is an introductory course providing students with a general introduction to the principals and practical applications of electricity and electronics. The student will study Ohms Law, basic DC circuitry, resistance, magnetism and elements of the communication/energy industry. Technical terminology and the proper use of the test instruments are reinforced. Students will study elements of industry which relate to the electrical/electronics industry.

PLTW – Digital Electronics

Credit: 1

Required: No

Prerequisite: Electronic Systems or Introduction Engineering Design, or Instructor's approval **Class limit: 18**

The theory and practice of digital electronics is introduced in an applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Milwaukee School of Engineering credit is optional by completing the national exam and a \$65 service fee to MSOE.

Intro to Metals

Credit: 1/2
Required: No
Prerequisite: None

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: 1/2
Required: No
Prerequisites: Intro to Metals

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. **The student will have to provide the materials.**

Architecture Systems 1

Credit: 1/2
Required: No
Prerequisite: 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 2

Credit: 1/2
Required: No
Prerequisite: Architecture Systems 1 or Instructor approval

This course is a continuation of the Architecture Systems 1 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.

Power Systems

Credit: 1/2
Required: No
Prerequisite: None

Class limit: 18

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. **Costs:** any parts or materials for student-owned engines.

Woodworking

Credit: 1/2
Required: No
Prerequisite: None

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: 1/2
Required: No
Prerequisite: Woodworking

Class Limit: 18

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. **Students will have to pay for materials used on individual projects.**

*These classes are part of the transcripted agreement with MSTC and may/will be used for college credit as long as you receive a grade of "C" or better.