Housatonic Valley Regional High School

CLASS OF 2023

PROGRAM OF STUDIES

2019-2020

Principal's Message

Dear Students, Parents, and Guardians,

Since 1938, Housatonic Valley Regional High School has prided itself on offering a comprehensive curriculum that prepares students for careers and further education. Our curriculum and course offerings have changed over time to reflect the demands of our world and the needs of our students, and as you peruse the courses described in our Program of Studies, I am confident that you will encounter some classes that pique your curiosity and excite you.

High school is a time for students to explore potential subjects of interest in greater depth, and especially during your junior and senior years, you will have the opportunity to fill your schedule with courses that suit your interests. Even if you have never attempted to play an instrument, balance a checkbook, take a better photo, or write a short story, now is the time to see if you like those activities so you can explore them in greater depth in the years to come.

Your school counselor is available to help you decide among courses to design the best schedule to meet your needs and future plans. While you will need to meet certain graduation requirements, there is flexibility in how you meet those. Additionally, you may include Personalized Learning courses to investigate a topic that you want to explore independently. Talk to your counselor to get started; learn something just for the fun of it!

Sincerely,

Ian Strever
Principal

Core Values and Beliefs

The HVRHS community promotes personal and academic growth, as well as independence of thought and spirit for all its members, within a culture of respect, responsibility and safety. The core values that support this statement include a commitment to 21st century academic expectations which encourage all members to grow to their potential, accept and respect different learning styles, solve problems and think analytically, and communicate their ideas effectively. Members of the school community are also expected to make ethical choices, demonstrate social and civic responsibility, and show pride and care for the school and its environment.

School-Wide Expectations

Academic Expectations

Students at HVRHS will:

- read for understanding
- communicate effectively
- identify and solve problems
- gather, analyze, interpret, assess and apply information

Social Expectations

- demonstrate respect for all individuals
- demonstrate personal responsibility
- demonstrate respect for our school and our environment • work collaboratively to resolve conflicts in our school community

Civic Expectations

- make positive contributions to their community.
- demonstrate a sense of ethics that is evident in the decisions they make and the behavior they exhibit.
- exercise their rights, duties, and responsibilities as members of their community.

9th Grade Requirements

All 9th graders are required to take the following courses:

8 Block Schedule: (not in any particular order)

Block	Semester 1	Semester 2
A	English 9	English 9
B	Science 9	Science 9
C	Global History 1	Global History 1
D	Math	Math
E	Lifeskills	Lifeskills
F	World Language* (or elective)	World Language* (or elective)
G	PE/Health	Elective
H	Study (or elective)	Study (or elective)
	Alternates:	
Alt. 1		
Alt. 2		

***World Language not required by strongly recommended**

AGRICULTURE SCIENCE AND TECHNOLOGY EDUCATION

Welcome to the world of Agricultural Science and Technology. Housatonic Valley is one of nineteen such programs in the state. We are rich in tradition, community support and leadership. Students in our program learn to recognize the importance of agriculture, food, fiber and natural resource systems more fully. They evaluate how these systems impact their lives and the world.

The courses in Agriculture Science and Technology Education are open to freshmen, sophomores, juniors and seniors. They are designed to provide education, career training, and experiences in the many areas of natural resources, agricultural engineering, biotechnology, animal science, and plant science. The Agriculture Science and Technology Center consists of a fully equipped Food science lab, agricultural mechanics shop, classrooms, computer lab/library, animal barn and laboratory area, aquaculture/hydroponics lab, greenhouse, Christmas tree plantation, and a research forest. Students learn about the environment and the relationship of animals, plants, and machinery in our ever-changing productive society.

Completion of Supervised Agricultural Experience (SAE) hours is a requirement to receive course credit for all agricultural classes. Many diverse opportunities exist such as job placement, job shadowing, research projects, home-based projects, and community activities. Single period courses require a minimum of 60 hours, and double period courses require a minimum of 200 hours for completion. Students are also involved with leadership and community activities through their participation in the FFA. The FFA is a national leadership organization of agricultural education students and provides scholarships, awards, cultural exchange and many educational opportunities to members.

Students enrolled in agricultural education will have the opportunity to create their own outside of class learning program with hands-on activities and real world experiences. There will be opportunities for students to develop personalized leadership skills.

All students with an interest in agriculture may apply for this program. New students should obtain an Agricultural Education Program application from Guidance or the Agricultural Education Department. **All students applying must have an Agriculture Education teacher's signature, and/ or approval before turning it into the School Counseling Office.**

Introduction to Agriculture

What is Agricultural Science? What types of careers are included? The answers to these questions may surprise you! This course allows freshmen to develop basic skills in the various aspects of agriculture while exploring what it has to offer. It is a full-year course designed to provide practical instruction and hands-on activities in a variety of units including; natural resources, agricultural mechanics, plant science, food science, animal science, and marketing. Equipment safety and operation (yes, driving tractors and more!), shop safety/woodworking, agricultural awareness and career exploration will also be included.

Course weight: 1.05 Credit: 1

ART

Advanced Painting

This class is designed to develop students painting skills to a higher level. Various mediums are explored, including acrylic, egg tempera and watercolor. The class experience includes producing work for the annual public exhibition as well as visits from various guest artists. Students also develop their personal portfolios.

Prerequisite: A 'B' or better average in Beginning Painting or permission of instructor.

Course weight: 1.05 Credit: .05

Art History 1

This course is an exciting investigation of the foundations of Western Art. The curriculum covers the early Renaissance through the Impressionists and on to Modern art. Students will have a variety of experiences as they pursue the interesting stories behind great art. This course includes a field trip to a major museum.

Course weight: 1.05 Credit: .05

Art History 2

This class is designed to cover major influences and trends in art history, with an in-depth emphasis on the western tradition. Via in-class activities and independent investigation, students develop skills in interpretation and aesthetics.

Prerequisite: Successful completion of Art History 1.

Course weight: 1.05 Credit: .05

The Art of Photography I

This exciting course explores contemporary digital photography at an introductory level. Students will focus on creative uses of digital cameras and related computer media, especially Adobe Photoshop. Students learn how to see and interpret the world through the camera and how to visually communicate their ideas. Through a series of interesting photo shoots, students will develop their individual portfolios and will be encouraged to submit work to the annual student art exhibit. This course will also touch upon the history and current trends of photography. All needed equipment will be issued in class. Class limited to 16 students.

Course weight: 1.05 Credit: .05

The Art of Photography II

This advanced digital photography course will further develop photography skills learned at the introductory level. Students will explore advanced photography equipment and themes. A majority of the course will be production based: students will develop their portfolios and express themselves through the camera. Students will reflectively explore and critique their work and the work of others. Students will be encouraged to submit work to the annual student art exhibit. All needed equipment will be issued in class.

Prerequisite: A 'B-' average in The Art of Photography 1 or permission of instructor. Class limited to 16.

Course weight: 1.05 Credit: .05

Beginning Painting

An exciting hands-on course that provides practical applications of color theory, as well as interesting methods of self-expression. Instruction will be given in a variety of painting media, with an emphasis on water-based mediums. This course provides an opportunity for students to develop a strong portfolio of work.

Course weight: 1.05 Credit: .05

Color and Design

This course provides an exciting introduction to art, covering both design principles and color theory. Students will create works of art in a variety of mediums including colored pencil, acrylic and collage. Some works will also be created in 3D media. Emphasis will be placed on creative problem solving. No prior experience in drawing or painting is needed for students to have a vibrant experience.

Course weight: 1.05 Credit: .05

Computer Animation

Using cutting edge wireless laptops and digital tablet technology, students develop skills in computer animation. The primary application used is Flash. Students will create their own animations and post their work on the web. Current trends in animation are also explored. Class limited to 15 students.

Prerequisite: Computer Painting or permission of instructor

Course weight: 1.05 Credit: .05

Computer Painting

Using cutting edge wireless laptop technology, students develop skills in digital imaging using Photoshop. Activities include: creating digital portfolios that display real world skills, and surveying current trends in graphic design. Class limited to 15 students.

Course weight: 1.05 Credit: .05

ECE Drawing 1

Drawing 1 is an excellent course for the beginning artist, as well as those with no drawing experience. With patience and effort everyone can learn to draw! Students will explore key elements of basic drawing including line, value, shape and perspective. Emphasis will be placed on *creating* art works and developing skills with various media and techniques. This key course develops a foundation for subsequent art making.

Course weight: 1.15 Credit: .05

Drawing 2

In this course students will further develop drawing skills as they build upon methods previously learned in Drawing 1. Students will be introduced to new drawing media and tackle more complex subject matter and techniques. Students will explore color drawing, collage drawing, as well as the human figure, foreshortening and gesture. The course will also touch upon art history and art criticism.

Prerequisite: A 'C' average or better in Drawing 1 or permission of instructor.

Course weight: 1.05 Credit: .05

Digital Design

Join us in the exploration of the elements and principles of art and design as you create two-dimensional graphic design/commercial art through the development of typography, logos, trademarks and advertising art with emphasis placed on art and design. The artistic process is implemented while you create "client-ready" commercial art. The computer is the main tool for creative expression and communication through the use of industry standard software including Adobe Photoshop, Illustrator, InDesign, as well as Adobe Acrobat. Digital photography will support assignments as appropriate to create finished products. Current industry practices are an essential component of this course. Portfolio preparation is also addressed.

Course weight: 1.05 Credit: .05

Sculpture

Combining hands and imagination, students create a variety of three-dimensional works. Students will explore several 3D techniques; molding, carving, assemblage, as well as casting. This course will also touch upon the history of sculpture. Students will be directly exposed to sculptures through a field trip to a major sculpture exhibit. Sculpture is the art department's première hands-on course.

Course weight: 1.05 Credit: .05

Introduction to Web Design

Come explore and enjoy the world of web design in this introductory course! You will learn effective website creation using the elements of art and design as they pertain to the World Wide Web. You will learn several ways to create and maintain web pages including Adobe Dreamweaver and HTML5, the newest release of web markup language. CSS and Java are also addressed in this course which will result in the creation of a personal web page, as well as ongoing design and maintenance of the Art department's website.

Course weight: 1.05 Credit: .05

ENGLISH

The high school's four-year English program follows a standards-referenced curriculum developed in alignment with the Common Core State Standards and those Advanced Placements guidelines defined by the College Board. Placement is determined with past achievement, identified needs, and student interest in mind.

Grade 9

English 9 is a prerequisite for all other courses offered by the department. Students who do not pass English 9 must repeat the course in the following year. They will not be allowed to take English 10 concurrently.

English 9H

English 9H is available to students whose demonstrated intellectual potential indicates they are ready for mature and independent work, both in English and Social Studies. This level of study hones students' skills in the comprehension, analysis, and evaluation of concepts encountered in their reading. It also provides them with the opportunity to identify the characteristics of quality writing and to adopt the practices on which skilled writers rely. English 9H emphasizes a global approach to literature, pairing works from Africa, China, South America and the Middle East with the study of those regions' histories. These texts will serve as the basis for class discussions, collaborative projects and independent work. Students in this class will need to show strong levels of self-direction and intellectual curiosity.

Prerequisite for English 9H: Recommendation by eighth grade teacher and school counselor or recommendation of ninth grade teacher.

Course weight: 1.10 Credit: 1

English 9

English 9 serves as an introduction to the skills and concepts outlined in the Common Core State Standards, which are necessary for the study of English Language Arts at the high school level and beyond. This course assists students in the development of their reading, writing, speaking and listening, and language application skills. Students will identify and apply literary devices, techniques and vocabulary in an effort to develop their personal and critical responses to the works studied. Students will also hone their ability to work independently both inside and outside of class.

Course weight: 1.05 Credit: 1

EXPLORING LIFE SKILLS

Exploring Life Skills

This required course is designed to introduce all freshmen to the life skills and career opportunities in the areas of business, technology education, and agriculture. Each student will explore areas such as manufacturing, materials processing, art, music, graphics, horticulture, natural resources, animal care, and mechanics. At any time during the year students can join the FFA and can begin a Supervised Agricultural Experience program (SAE).

Course weight: 1.05 Credit: 1

HEALTH AND PHYSICAL EDUCATION

HEALTH EDUCATION

Students must take and pass one marking period of Health Education each year in order to graduate.

Course weight: 1.05 Credit: .25

PHYSICAL EDUCATION

Students must take and pass one marking period of Physical Education each year in order to graduate.

Course weight: 1.05 Credit: .25

MATHEMATICS

Given the sequential nature of the courses in the College Prep (CP) and Honors (H) levels, a student obtaining a grade of 70 in a prerequisite course will need his or her teacher's approval to continue in that level. Should the student's teacher not believe that the level is appropriate, the student's parent or guardian will be asked to complete a level override form, available from the School Counseling Department.

Algebra 1 (Part 1 and Part 2)

The two-year course allows students to take Algebra 1 while simultaneously reviewing and mastering standards from middle school and pre-algebra. The course focuses on developing student competence in algebra through the use of activity-based learning and additional time devoted to mastering of skills. Over the course of two years, the course will develop an understanding of the most fundamental of mathematical concepts—the function through experiences designed to explore functions defined through verbal, numerical, graphical, and analytical representations. The student will write and solve equations and systems of equations to model real-world phenomena; draw graphs to describe linear, quadratic, and exponential functions; and, operate on polynomial expressions. Throughout the two years, the student will also review fundamental concepts from pre-algebra including operations on integers; ratio, proportion, and percent and geometry.

As a result of their experiences in Algebra 1 (Parts 1 and 2), students are expected to develop both procedural competence and conceptual understanding. Students should be prepared to write regularly to describe the procedures that they employ and to explain and defend their reasoning. Students will use scientific and graphing calculators as tools for the solution of problems and to explore mathematical concepts.

Students who successfully complete Algebra 1 (Parts 1 and 2) will be prepared to enroll in Algebra 2CP. This course is only open to students who have successfully completed Algebra 1 with permission of the Department Chair.

Prerequisites: Recommendation of teacher.

Course weight: 1.05 Credit: 1

Algebra 1 CP

A fundamental concept in the study of mathematics is function. A function is a relationship between two quantities, and can generally be expressed in four ways: verbally, numerically, graphically and analytically. This course begins a student's exploration of functions that continues through the college prep and honors sequences into Calculus. Along the way, students will write and solve equations and systems of equations to model real-world problems, draw graphs to describe linear and non-linear relationships, collect and describe data, investigate sequences (both arithmetic and geometric), and develop facility with operation on polynomials.

As a result of their experiences in Algebra 1, students are expected to develop both procedural competence and conceptual understanding. Students should be prepared to write regularly to describe the procedures that they employ and to explain and defend their reasoning. Students will use scientific and graphing calculators as tools for the solution of problems and to explore mathematical concepts.

Prerequisites: 70 or higher in middle school math or teacher recommendation and a required score on both the Iowa Algebra Readiness Test (75^{th} percentile) and a departmental basic skills assessment (75 percent). Students entering Algebra 1 are expected to be able to compute with positive and negative numbers (without a calculator), to plot points on a coordinate plane, and compute with ratios, proportions, and percents. Students without these prerequisite skills must enroll in Algebra 1 (Part 1).

Course weight: 1.05 Credit: 1

Algebra 2 CP/H

The second year of algebra continues the student's exploration of functions begun in Algebra 1. The course begins with a brief review of the major concepts from Algebra 1 and then moves quickly to investigations of new types of functions: quadratic, exponential, logarithmic, rational, and trigonometric. Students will continue to write and solve equations, inequalities, and systems of equations to model real world problems; draw graphs to describe linear and non-linear relationships; collect and describe data; develop facility with polynomial and rational expressions; and use sequences and series to describe real-world phenomena.

As a result of their experience in Algebra 2, students are expected to develop both procedural competence and conceptual understanding. Students should be prepared to write regularly to describe the procedures that they employ and to explain and defend their reasoning. Students will use scientific and graphing calculators as tools for the solution of problems and to explore mathematical concepts.

Algebra 2 is STRONGLY RECOMMENDED for any student who anticipates going to college. The SAT Reasoning Test includes problems drawn from Algebra 2 topics. In addition, students are advised that colleges that require mathematics through Algebra 2 often expect that students will have studied the trigonometric functions. At HVRHS, trigonometry is studied in Algebra 3 and Precalculus.

Prerequisite: 70 or higher in Algebra I. A student who earned a grade of 70 or lower in Algebra 1 is strongly encouraged to audit Algebra 1 prior to enrolling in Algebra 2 to obtain the needed background knowledge for this course.

Course weight: 1.05 or 1.10 Credit: 1

MUSIC

Band (Fall and Spring)

This is a performing arts course open to interested students with previous band instrument experience. A minimum of two concerts will be performed each year. Opportunities for additional concerts will be provided, such as Berkshire League Music Festival, Northern Regional Festival and the All State Festival. Emphasis will be placed on musicianship, ensemble playing, tone, articulation and general technique. Additional rehearsal time is available during the school day. This is a full-year course. Concert attendance is mandatory. This class can fulfill the requirement for participation in the night groups – Jazz Band, Night Choir, Sweethearts and Heartbreakers.

Course weight: 1.05 Credit: 1 or .5

Chorus (Fall and Spring)

This is a vocal group experience in choral literature which includes repertoire from all styles of music. A minimum of two concerts will be performed each year. Opportunities for additional concerts will be provided, such as Berkshire League Music Festival, Northern Regional Festival and the All State Festival. Emphasis will be placed on musicianship, ensemble playing, tone, articulation and general technique. Additional rehearsal time is available during the school day. This is a full-year course. Concert attendance is mandatory. This class can fulfill the requirement for participation in the night groups – Jazz Band, Night Choir, Sweethearts and Heartbreakers.

Course weight: 1.05 Credit: 1 or .5

Music Theory 1

This course is designed to teach students the basics of writing music through music theory and composition. New music technology, equipment, and piano keyboards will be used along with Finale 2010 and Practica Musica programs.

Course weight: 1.05 Credit: .5

Music Theory 2

Music Theory 2 will continue where Music Theory 1 concluded, with more focus on composition work. Major emphasis will be placed on music recording technology.

Prerequisite: Music Theory 1 and permission of instructor.

Course weight: 1.05 Credit: .5

Music Technology

Music technology is a course designed to appeal to the songwriter and music producer in you. Have you ever wondered what it takes to produce a music track? In music technology you will learn how to compose and produce a song from start to finish. No experience necessary, and closet guitar heroes are highly encouraged. Students will be exposed to Audacity, Garageband, and Logic Pro X. Students will learn about basic principles of the physics of sound, the different types of recording, and how to properly set up a recording session.

Course weight: 1.05 Credit: .5

SCIENCE

All freshmen should enroll in the appropriate level of Science 9.

Grade 9

Science 9

This course emphasizes the basic chemical concepts that underlie a great deal of our technology. Students will learn how those concepts are applied in our lives and to the function of the Earth. In keeping with the Next Generation Science Standards, emphasis is placed on the use of science and scientific argumentation to solve problems and to understand the world around us.

Course weight: 1.05 Credit: 1

Science 9H

This course explores the same standards as Science 9 CP; however, topics are dealt with in more depth and at a more demanding pace. Participation in the school science fair is required.

Prerequisite for Science 9H: Recommendation by eighth grade teacher and school counselor or recommendation of ninth grade teacher.

Course weight: 1.10 Credit: 1

SOCIAL STUDIES

Grade 9

Global History I H

To prepare students to be global citizens, this course focuses on the common strands of history from the earliest human civilizations to the Age of Discovery. Students will be introduced to the skills of the historian as well as different ideas about the meaning of history. The major emphasis of the course will be on how civilizations around the globe developed in different ways, while also examining aspects common to all civilizations. As connections and common assignments with the English 9H course will be at the heart of this course, students taking Global History I H must also enroll in English 9H. A summer reading assignment will be given. This course meets the graduation requirement for Social Studies 9.

Prerequisite for Global History I H: Recommendation by eighth grade teacher and school counselor or recommendation of ninth grade teacher.

Course weight: 1.10 Credit: 1

Global History I

To prepare students to be global citizens, this course focuses on the common strands of history from the first human civilizations to the Age of Discovery. Students will be introduced to the skills of the historian as well as different ideas about the meaning and definition of history. The major emphasis of the course will be on how civilizations around the globe developed in different ways, while also examining aspects common to all civilizations. This course meets the graduation requirement for Social Studies 9.

Course weight: 1.05 Credit: 1

SPECIAL EDUCATION

The Special Education Department at Housatonic Valley Regional High School offers a number of different programs and services that are designed to meet the needs of students with special needs. All programming is determined by PPT agreement.

Co-taught General Education- A Special Education and General Education teacher team to provide differentiated instruction to students to maximize learning and academic success.

Supported General Education- A Paraprofessional is assigned to one or a group of students in a general education class to maximize learning in the general education setting.

Individualized Education subject area courses- by PPT recommendation. Students who exhibit significant deficits in basic academic skills are remediated through small group or individualized instruction per IEP goals and objectives.

Transition and Work Study experiences- by PPT recommendation. Students who require more individualized or intense life or social skills training. Students can either shadow, or work at various work sites with different levels of supervision and instruction to prepare them for employment after graduation.

Alternative Learning Program for Student Success (ALPSS)- The ALPSS program is a cohort of students who require on-site therapeutic counseling services in partnership with Wheeler Clinic, and individualized Special Education academic instruction. Although the amount of time each student spends in the ALPSS classroom varies, all students demonstrate a need for a closely supportive and therapeutic environment to act as an anchor for their daily school experience.

Academic Lab -The Planning and Placement Team may recommend a student for Academic Lab as part of the students specially designed Individual Education Plan. The goal of the course is to teach skills and content that will help the students become independent learners in the general curriculum. General curriculum content, foundation skills and background information will be developed to work toward this goal. Through pre-teaching and clarification of general curriculum as well as direct instruction of necessary math and literacy skills, this course will assist students in developing skills for success in academics while increasing their ability to manage their own learning.

Students will receive individualized and/or small group instruction and guided practice in topics critical to becoming independent learners. Students with 504 plans may be considered for this course. Additionally, an intervention team may also recommend this class as a tier 3 intervention.

Topics Covered:

Academic Independence

- Organization, Study and test-taking skills and Productivity
- Academic Problem Solving and Collaboration
- Self-Advocacy & Metacognition

- Transition to College and/or Career

Academic Instruction and Support

- Academic Vocabulary & Background Knowledge
- Reading and Writing Instruction and Support
- Mathematics Instruction and Support

Required Materials: Personalized agenda book
Core academic books and notebooks
Charged Chromebook
Paper, pencils, pens, highlighter

Related Services – Counseling, Speech Language, Occupational and Physical Therapy are available as agreed upon by the PPT per individual student need.

TECHNOLOGY EDUCATION

Advanced Metal Technology

The skills learned in Introductory Metal Technology are extended through the completion of more challenging activities. Students will gain new skills with processes previously uncovered. Technical writing is a significant focus in the course as students will write and present inventor reports as well as write-ups intended to sequentially lay out the proper steps for completing projects. This course may be repeated for additional credits by contracting for Personalized Learning with the instructor. Students may enter or exit this course at mid-year. Class limited to 16 students.

Prerequisite: 1 credit of Introductory Metal Technology or permission of instructor.

Course weight: 1.05 Credit: .5

Advanced Woodworking Technology

This course gives the student an opportunity to apply previously gained skills and knowledge toward independent projects. New areas of learning include shop organization and equipment maintenance. Class limited to 16 students.

Prerequisite: Introductory Woodworking Technology or permission of instructor.

Course weight: 1.05 Credit: .5

CAD (Computer Assisted Drafting)

CAD is a self-directed, tutorial based course designed for students desiring comprehensive training in computer assisted drafting. CAD is offered concurrently with the Drafting and Electronic Publishing course and is arranged for by the student through a contract with the instructor.

Course weight: 1.05 Credit: .5

Computer Aided Drafting (CAD) and Electronic Publishing

This semester course is designed to engage students in awareness about the changing industry of publishing and to teach the basic application of CAD techniques. During the first half of the course, students will use a variety of computer software programs and production equipment to design and produce a class publication as well as printed materials to support other school projects. These may include posters, tickets, programs, brochures, flyers, banners, and business cards. During the CAD focused units of study, students are introduced to the appropriate tools, techniques, and terminology necessary for processing information utilized in mechanical drawing, architectural drawing, and computer image generation and publishing. Emphasis is placed on the development of

basic skills in layout and design, measurement, problem solving, computer operation, and software application. Class limited to 16 students.

Course weight: 1.05 Credit: .5

Introductory Automotive Technology

Students will learn the fundamentals of the operation of the modern automobile as well as routine and preventative maintenance and basic repairs. The process of purchasing and owning/operating an automobile will be learned by working with amortization charts and studying various forms of insurance coverage. Driving issues will be the topic of discussions and writing assignments to include safety, State laws and driver distractions. A State Police officer is invited to join such discussions. Students completing this course will be knowledgeable in all areas of car ownership. Class limited to 16 students.

Prerequisite: Power Technology

Course weight: 1.05 Credit: .5

Introductory Metal Technology

This course allows students an opportunity to develop skills and to gain experience working with various metals and related tools and equipment. Major areas of study include sheet metal work, mechanical and physical joining, forging and casting, heat treatment, brazing and soldering, MIG and Arc welding as well as other supportive technologies employed to complete the fabrication of planned project work. A unit requiring a technical write-up of a semester project is also a key focus as technology concepts present many opportunities to support interdisciplinary coursework. Students may enter this course at mid-year. Class limited to 16 students.

Course weight: 1.05 Credit: .5

Introductory Woodworking Technology

This course is organized to give the student instruction and practical experience with tools and machines common to the woodworking industry. Additional areas of instruction include wood identification, planning and drawing, tool and machine safety, and finishing materials and techniques. Class limited to 16 students**.**

Course weight: 1.05 Credit: .5

Power Technology

This course explores the various ways that energy is harnessed to produce work. In short, the technology of applying power to do that work. The traditional study of two and four stroke engines remains an early focus of the course but the idea is to move further into all aspects of power technology including the study of energy forms. Individual project work will entail the planning and fabrication of a small mouse-trap or CO2 vehicle. Students completing this course will have a solid understanding of the means by which resources are used for transportation and energy. Multimedia and hands-on presentations comprise the greater part of instruction. Class limited to 16 students.

Course weight: 1.05 Credit: .5

Production Graphics

This course will use a hands-on approach to teach students how to design and execute graphic arts projects. Production jobs such as student publications, posters, tickets, brochures and other printed materials will teach students how to work cooperatively, problem solve and meet crucial deadlines. The screen process of printing will allow students to execute artwork and designs on a varied number of substrates including vinyl stickers and magnets. Black and white chemistry photography will provide opportunities for students to truly understand the workings of cameras and will teach the concepts of chemical reactions, focal length, light exposure and material handling to produce professional quality matted images. Class limited to 16 students.

Course weight: 1.05 Credit: .5

Introductory Black and White Photography

This course will introduce the student to the myriad of concepts that comprise the core of photography. From compositional theory to the actual mechanics of the camera, students will gain a deep understanding and appreciation for the art of photography. The wet chemistry process reinforces science concepts such as the interaction of bases and acids, light theory, focal length and the effect of temperature upon reactions. Exposure control, film processing, composition, enlargement and finishing techniques will round out the skills students will gain. Any student wishing to express themselves with a graphic, hands-on process should take this course. Class limited to 16 students.

Course weight: 1.05 Credit: .5

WORLD LANGUAGES

French 1

In the first year, students master elementary listening, speaking, reading, and writing skills necessary for simple communication in practical, day-to-day situations. The course stresses active student use of the language through frequent speaking and writing exercises as well as reading and grammar drills.

Course weight: 1.05 Credit: 1

French 2

The course is a continuation of French 1. Emphasis is placed on student's vocabulary and increasing his ability to understand, speak, read, and write the language in both present and past tenses. Emphasis is placed on the students' acquiring more refined grammatical and syntactical structures and particular emphasis is placed on increasing the students' awareness and knowledge of the francophone world. **Prerequisite**: French 1

Course weight: 1.05 Credit: 1

Spanish 1

This course is an introduction to the basic grammar and vocabulary of the language. Emphasis is placed on the listening, speaking, reading and writing skills necessary for communicating practical, everyday needs. Active participation by the student in a variety of activities is designed to stimulate conversation and aural comprehension. Students will be introduced to the many cultures found in the Hispanic world.

Course weight: 1.05 Credit: 1

Spanish 2

A continuation of Spanish 1, this course further develops oral and written proficiency in the language through a concentrated program of grammar presentation and an expansion of the student's vocabulary and writing skills. Active practice of the four skills is stressed. Cultural backgrounds, customs and the geography of the Spanish-speaking world are explored through reading selections and discussions. **Prerequisite**: Spanish 1

Course weight: 1.05 Credit: 1