

2021-2022

Course Descriptions



“Home of the Yellowjackets”

PERHAM HIGH SCHOOL

800 8th Street West

PERHAM, MN 56573

218-346-6500

Ehren Zimmerman, Principal

Jen Bain, Licensed Career Counselor

www.perhamschools.org

Criteria to graduate from Perham High School

	Class of 2018 and Beyond
Credits that must be successfully completed	34
Community Service Hours	16
State Mandated Testing	Take MCA Science, Reading and Math Encouraged to take ACT Plus Writing

Credit Requirements

Course	Class of 2018 and Beyond
English	4
Social Studies	4
Math	4
Science	4
Art	1
Public Speaking	½
Technology	1
Physical Education	1
Community Health	½
Career Readiness	½
Electives	13.5

1 Credit = 1 year of completion

Required Core Courses
Each course is worth a half credit

Course	9	10	11	12
English 4 credits	9 English I 9 English II	10 English I 10 English II	11 English I 11 English II (American Literature)	12 English Elective 12 English Elective OR College English I College English II
Social 4 credits	9 Social Studies I 9 Social Studies II	10 American History I 10 American History II	World History Geography	Government OR College Government And Economics
Math 4 credits	9 Algebra IIA 9 Algebra IIB AND Class of 2022 and beyond 9 Algebra IIC	10 Plane Geometry A 10 Plane Geometry B And Class of 2022 and Beyond Algebra IID	Class 2021 & Beyond Algebra IIIA & Algebra IIIB OR Pre Calc A & Pre Calc B	
Science 4 credits	9 Phys Science I 9 Phys Science II	10 Biology I 10 Biology II Environmental Study I	Chemistry I & Chemistry II OR Physics I & Physics II And Science Elective	
1 Art Credit				
½ Career Readiness 11 th Grade				
½ Community Health 10 th grade				
½ Physical Education 9 th grade				
½ Physical Education 10-12 grade				
½ Public Speaking 9 th grade				
1 Technology Credit				

REGISTRATION GUIDELINES and PROCEDURE FOR CHANGING SCHEDULES

Schedule

PHS is on a six-block A/B alternating-year schedule. The school day will be divided into 6 class blocks at 55 minutes each. The 6-period day provides increased elective options and brings class sizes down in the classroom.

Once selected, a course is to be continued for its duration:

When registering, it is important for students to carefully plan their academic class selections to coincide with future plans, interests, aptitudes, and special abilities. Students should not sign up for a course with the intent of trying it out and drop it if it is not what they like. Use your registration book to review graduation credit requirements. Discuss your class selections with your parents, teachers, and high school counselor.

- Make sure you meet the prerequisites (indicated in course descriptions by “Prerequisite”).
- All students must register for 6 blocks each trimester.

Course/Drop Change Policy

Course offerings and teacher staffing assignments are determined by initial student registration.

Solid rationale is required in order to make a schedule change. A student’s schedule is considered a contract between the student and the school district.

There are solid deadlines in order to make any schedule changes due to the reasons listed below. These deadlines will be communicated via email and school bulletin. Typically the deadline will be a week and half before the new trimester begins. The deadline for fall changes will be due a week and a half before the last day of school the previous spring.

Major schedule change requests will require a drop/add slip to be filled out. The drop/add slip requires students to talk with their parents as well as the teachers whose class loads will be affected.

Schedule Changes Will be Limited to the Following Situations:

- The student schedule reflects a clerical or computer error
- A student is not scheduled for a course he/she may originally requested or is scheduled for a course that was not on original registration
- A student has an incomplete schedule and needs to add a course
- A student does not meet the requirements for a course for which he/she is presently enrolled
- A student needs to schedule/reschedule a required course for graduation – core subject missing
- A student has failed a class and needs to retake the class or is not able to move onto the second part of the class due to the failure
- A student wishes to drop an open hour to add a course
- A student needs to schedule a course that is required or recommended for admission to a specific post-secondary school or program.
- A student is recommended by his/her teacher to move from one level to another within the same discipline
- A student is involved in an activity or ongoing therapy commitment in which they will need to leave early often
- A student needs to adjust heavy rigor of college course load
- The change is a recommendation on a student’s IEP or 504 Plan or a recommendation by the PHS SAT or REACH team.
- A change which provides solid rationale

Schedule Changes that will NOT be allowed:

- Changes in teacher
- A student would like a different lunch
- A student needs to have class with certain friends
- A student changed their mind – it is important to make your registration selections carefully
- A student will not be dropped from a class with 12 or fewer students

M-STATE COLLEGE CREDIT OPPORTUNITIES (FERGUS FALLS)

College credit opportunities while at Perham High School are offered to junior and senior high school students through M State Fergus Falls. Since these classes are on the college level, they have rigorous requirements and often require more work; however, they give greater opportunities for individual progress and accomplishment. The obvious advantages to students are challenging coursework and the opportunity to earn college credit while staying in the high school campus. All courses in the program are offered for degree credit and are approved by M State.

These credits may not transfer to all colleges. Each college will have their own policy concerning the transferring of credits. The University of Minnesota and the Minnesota State University systems will accept these credits.

CREDIT	YEAR OFFERED	COURSE #	COURSE TITLE	PRE REQUISITE	GRADE LEVEL
6 sem. College (3 credits each)	Every	000101 000102	College English I, II	ENGL 1101 (I) is a prerequisite to ENGL 1205 (II)	12
3 sem. College	Every	000161	College Intro to Public Speaking		11-12
3 sem. College	Every	000200	College General Psychology		11-12
3 sem. College	Every	000201	College Developmental Psychology		11-12
3 sem. College	Every	000265	College American National Government		11-12
8 sem. College	B B	000591 000592 000590	College General Biology I, II, III	Biology I & II	11-12
8 sem. College (1 lab and 3 lecture credit each)	A	000434 000435 000436	College Anatomy & Physiology I, II & III		11-12
3 sem. College	Every	000638	College Algebra		11-12
5 sem College	Every	000475 000476	College Chemistry I & II		11-12

Students must be classified as a junior or senior to participate in this program. These classes are available to juniors who have a GPA of 3.2 or above and seniors who have a GPA of 2.8 or above. Another qualifier for these courses is that a student may need to pass the college readiness exam that M State uses which is the Accuplacer. M State will also accept qualifying MCA or ACT scores. See the counselor or M State's website for the qualifying test scores.

College Course Descriptions

College English I, II
Two Trimesters
6 College Semester Credits
000101
000102
Grades: 12
Trimester 1: ENGL 1101

College English is an introductory writing course designed to prepare students for later college and career writing. The course focuses on developing fluency through a process approach, with particular emphasis on rewriting and revision. Students will consider purpose and audiences, read and discuss writing, and further develop their own writing processes through successive revisions to produce polished drafts. Course work will include an introduction to argumentative writing, writing from sources, and a short research project.

Trimester 2: ENGL 1205

Prerequisite: College Writing I (1101)

Composition and literature is the focus for the second trimester. This course provides students with additional opportunities to develop fluency through a process approach by continuing work with writing and revision. Students will read critically from a variety of genres as they continue to give attention to organization, syntax, usage, point-of-view, and voice in their essays. Course work will include argumentative writing and writing from sources with MLA citations.

College Intro to Public Speaking (COMM 1120)

One Trimester
3 College Semester Credits
000161
Grades: 11-12

This course clarifies the process of oral communications, the basic principles of public speaking, and allows the students to increase the application of these principles both while researching, speaking, and listening. Students will conduct in-depth research, demonstrate APA citation of sources, create formal presentations, and evaluate and analyze presentation styles.

College General Psychology (PSYC 1200)

One Semester (eCHS model)
3 College Semester Credits
000200
Grades: 11-12

This class is an introductory course into the subject of psychology. Students will be expected to learn about the pioneers of psychology, the basic approaches, the make-up and functions of the brain, sensation, perception, motivation, emotions, levels of consciousness, learning, intelligence, mental disorders, and others. Students will also take part in a group presentation and an individual research project. Because this class is geared for the college-bound student, the class will have a rigorous atmosphere with much discussion.

College Developmental Psychology (PSYC 2222)

One Semester (eCHS model)
3 College Trimester Credits
000201

Grades: 11-12

Prerequisite: Psychology 1200 Recommended

This class focuses on the study of human development from the life span perspective, including theories, stages and influences of development. The course views the individual from conception to death through physical, social, emotional and mental development.

College American National Government

One Semester (eCHS model)
3 College Semester Credits
000265

Grade: 12

This course gives students a working knowledge of our government. Students will come away with a greater

understanding of what it means to be an U.S. Citizen. Students will explore our government foundations, the constitution, the 3 branches of the government, interest groups, vote behavior, and other areas. Because this class covers so much material, there will be much discussion. Students will also take part in various critiques of our system in an effort to help make them a more educated voter.

College General Biology I, II, III (BIOL 1122 and 1123)

Three Trimesters – Must Register for ALL 3

8 College Semester Credits

000591

000592

000592

Grades: 11-12

Prerequisite: Biology I & II

The first half of the year is mainly concerned with the cellular organization of an organism, its physiology and its genetics. The emphasis will be on cellular study including its basic organization, metabolic activities, reproduction and heredity. Lab work involving outdoor activities, microscope work, and genetic principles will take place.

The second half of the year is mainly concerned with the study of the entire organism, with emphasis on animal systems and their requirements for life. The comparisons between various animal systems will be emphasized.

Lab work will involve animal dissection and comparative anatomy and physiology. Lab work will also involve outdoor activities microscope work and plant propagation

College Human Anatomy & Physiology I (BIOL 2260/2261 and 2262/2263)

Three Trimesters – Must Register for ALL 3

8 College Semester Credits

000434

000435

000436

Grades: 11-12

The first half of the year will be a comprehensive introductory overview of human anatomy and physiology that includes basic fundamental concepts of cell biology, tissues and organs making up the integumentary, skeletal, muscular and nervous systems. It is the first of a two-trimester sequence in which anatomy and physiology are studied with an emphasis on structure and functions of systems. This course contains many lab components.

The second half of the year is a continuation of Anatomy and Physiology I. Topics will include the study of cells, tissues and organs making up the endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems. Emphasis is on the structure and function of included systems. This course contains many lab components.

College Chemistry (CHEM 1111)

Two Trimesters -- Must register for both

5 College Semester Credits

000475

000476

Grades 11-12

Students will learn the general chemistry principles: atomic structure, stoichiometry, solutions, bonding, thermochemistry, electronic structure, periodic properties of the elements, intermolecular forces and properties of solids, liquids and gases. The course includes a lab.

College Algebra (MATH 1114)

One Trimester

4 College Semester Credits

000638

Grades: 11-12

Prerequisite: Qualifying score on the ACT or Accuplacer and PHS Pre Calc A & B or Algebra IIIA & B; maintain C average in high school math course

Course Description: Meet MnTC Goals Areas 2 (Critical Thinking) and 4 (Mathematics/Logical Reasoning).

This course includes rational, polynomial, exponential, logarithmic, inverse and quadratic functions. The course also includes equations, inequalities, complex numbers and systems of linear equations. Additional topics may include matrices and determinants.

AGRI-SCIENCE EDUCATION

Classes	Year
Advanced Welding/Fabrication	Every
Ag Mechanics	B
Ag Power & Equipment	A
Agronomy	B
Animal Science	B
Horticulture	A
Introduction to Agricultural Science and Mechanics I	Every
Introduction to Agricultural Science and Mechanics II	Every
Introductory Welding	Every
Landscaping	B
Intro to Leadership	A
Metal Fabrication	Every
Small Animal Care	A
Small Engine Maintenance	Every

Advanced Welding/Fabrication

One Trimester

001455,

Grades: 11-12

Prerequisite: Introductory Welding

The course will involve areas such as light gauge metal and heavy metal construction. This class is intended for students who want to pursue further training and utilization of welding skills. The majority of the students enrolled in this class should have a construction project in mind and will design, build, and finish a project of their choice. Students may choose to be involved in the development of a high mileage vehicle that could be used to compete in the super mileage competition at Brainerd International Speedway

Ag Mechanics

One Trimester

001441

Grades: 9-10-11-12

Prerequisite: None

Students will learn shop safety, basic electricity, plumbing and tool repair. Students will also learn about electric motors and combine operations.

Ag Power & Equipment

One Trimester

001443

Grades: 10-11-12

Prerequisite: None

This course deals with the machinery and equipment used in the agriculture industry. Students will learn how the specific equipment operates, its uses, and how to repair it. Other topics include: horse power, engines and hydraulics. Students may repair their own machinery or equipment.

Agronomy
One Trimester
001473

Grades: 9-10-11-12
Prerequisite: None

Students will cover many aspects of plant morphology systems and diseases. Students will learn about the history of agriculture, planting, growing, and harvesting cash crops and feeding the world.

Animal Science
One Trimester
001471

Grades: 9-10-11-12
Prerequisite: None

This course will deal with the production and growth of large production animals, feeding nutrition, and disease prevention. Topics include: animal breeding, beef cattle, swine, sheep, goats, horses, poultry, dairy cattle, and rabbits. We will try to incorporate hands-on learning as much as possible.

Horticulture
One Trimester
001463

Grades: 9-10-11-12
Prerequisite: None

Learn about plants such as flowers, shrubs, fruits, and vegetables. Topics include identification, fertilizers, insects, growing media, greenhouses and floral design. Students will also learn to operate and manage a greenhouse.

Introduction to Agriculture Science and Mechanics I & II
One Trimester

001414
001416

Grades: 9-10-11-12
Prerequisite: None (please note: you do not have to take I before II)

This course focuses upon the applied sciences of agriculture from ice cream to electricity. The major focus of the Introduction to Agriculture, Food, and Natural Resources (AFNR) course is to introduce students to the world of agriculture, the career pathways they may pursue, and the science, mathematics, reading, and writing components they will use throughout agriculture. Intro to Ag I will focus primarily on careers and Natural Resources with a final project of building Ice Fishing Rods. Intro to Ag II focuses on Plant and Animal Science with a final project of making homemade cheese.

Introductory Welding
One Trimester
001450

Grades: 10-11-12
Prerequisite: None

Introductory welding provides access to information which advances made in welding technology have spurred the development of complex modern equipment allowing new applications and capabilities. The goal of this class is to provide authoritative text to address the changes in welding technology while providing a fundamental background of basic welding procedures. The purpose of the class is to provide students with a feel for the level of skill and training, which they will need to acquire in order to succeed in the workforce. The class provides the students with significant "hands-on" skills in the area of Oxyacetylene Welding, Shielded Metal-Arc Welding, Gas Shielded-Arc Welding, and numerous special-welding processes.

Landscaping
One Trimester
001472

Grades: 9-10-11-12
Prerequisite: None

During the laboratory phase of this class, the student will be assigned to design a landscape area for a client using digital and hand-drawn scale designs. Once designs have been complete, students will follow a design

to complete a landscape on site. During the tri-semester, students will design and construct several landscapes in the local area. An outline of the units in the course is as follows: Introduction to Landscaping, Principles of Landscape Design, Scale Drawings and Plans, Plant Selection and Care, Material Selection, Budgeting, Planting, and Landscape Installation.

Leadership Development (Intro to Leadership)

One Trimester

001605

Grades: 9-10-11-12

Prerequisite: None

Learn how and what it takes to be a leader. Learn how to run short but effective meetings. Topics include parliamentary procedure, communication skills and other leadership activities. Students will have ample opportunities to practice these skills through a variety of speeches and demonstrations. If you are thinking of becoming an officer or active member in any organization in school or life, this class is for you.

Metal Fabrication

One Trimester

001425

Grades: 9-10-11-12

Prerequisite: None

During the shop phase of this class students will be required to construct four metal projects using a forge, metal bender, plasma cutter and welder. Students will develop and plan the marketing of fabricated metal products. An outline of the units in the course is as follows: Careers in Metalworking; Introducing Metals; Safety in Metalworking; Getting Acquainted with Metals; Reading Drawings, Making Sketches and Product Planning; Measuring Tools and Layout Techniques; Bench Work; Threads and Thread cutting; Fitting and Assembling; Sheet Metal Processing; Forging and Heat Treating; Abrasives and Utility Grinding; Power Cutting and Sawing; Drilling Machines and Drilling Operations; and Making Metal Products.

Small Animal Care

One Trimester

001415

Grades: 9-10-11-12

Prerequisite: None

Students will learn how to care for many species of animals that they may have as a pet. During the laboratory phase of this class, the student will be assigned to care for many species of small animals and pets. Students will also work with technology in preparing "owner's manuals" for small animals and pets. An outline of the units in the course is as follows: Introduction to Small Animal care; Safety; Small Animals as pets; Animal Rights and Animal Welfare; Careers in Small Animal Care; Nutrition and Digestive Systems; Dogs, Cats, Rabbits; Hamsters, Gerbils, Rats; Mice; Guinea Pigs, Chinchillas, Ferret, Birds, and Fish.

Small Engine Maintenance

One Trimester

001460

Grades: 9-10-11-12

Prerequisite: None

Small Gas Engines provides students, do-it-yourselfers, and aspiring mechanics with practical information about small engine construction, operation, lubrication, maintenance, troubleshooting, service, rebuilding and repair. The students will have opportunities for hands-on work on a vertical and horizontal shaft 4 cycle engine, two cycle engine and potentially one of their own. All students will be expected to maintain lecture and lab assignments. They will also develop job skills needed to succeed in any job, but special attention will be given to those skills needed by employers in the field of small engine repair. Each student will have the opportunity to diagnose potential problems and repair and service a two-stroke cycle engine and a four stroke cycle engine.

ARCHITECTURE & ENGINEERING

Class	Year
Architectural Drafting	A
CAD Drafting * Counts as Technology Credit	B
Introduction to Engineering & Design A & B	Every

Architectural Drafting

One Trimester

001730

Grades: 10-11-12

Prerequisite: None

Introduction to the fundamental CAD concepts and principles using ProDesktop software. Students will gain practical knowledge in the use of CAD that is essential in producing mechanical and architectural drawings. The class includes hands-on applications, and drawings will be produced.

Course Goals

1. Technical writing and reading.
2. Introduction to drawing.
3. Introduction to drafting equipment.
4. Sketching.
5. Alphabet of lines.
6. Space, shape, and measurement.
7. Orthographic, isometric and pictorial drawings.
8. Introduction to computer aided drawing.
9. Floor plan layout.
10. Roof layout.
11. Front, back, end elevations

Requirements: All students will be expected to maintain lecture and lab assignments. They will also develop job skills needed to succeed in any job, but special attention will be given to those skills needed by employers in the field of CAD, and drafting fields. All safety rules and procedures must be learned, followed and obeyed.

Computer Assisted Drafting 3D (CAD)

One Trimester

001732

Grades: 10-11-12

Prerequisite: None

This course is an introduction to the solid modeling methods and software used in the field of engineering and drafting. The students will make virtual solid models and drawings using AutoCAD Inventor software. The students use state-of-the art software to gain an understanding of processes and procedures involved.

Introduction to Engineering Design A & B

Two Trimesters

001706 –001707 – Must Register for Both

Grades: 9-10-11-12

Prerequisite: None

Ever tried to design something new or draw up an idea you wanted to share with your friends and wondered how you could communicate your idea? Or, have you wondered how someone designed that new MP3 player or sleek new phone? Then Introduction to Engineering Design TM is the course for you. The major focus of the course is to learn how to take an idea through a design process and then manufacture it. As you learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, you will apply what you learn through various activities, projects, and problems. For example, after learning about the different techniques engineers use in determining how to design a product,

you and your teacher will have the flexibility to explore the design and engineering processes to solve problems that are of interest to you. We will be building a woodworking project in this class to reinforce the engineering process from design to finished project. The course covers the following:

The Role of an Engineer

The Design Process

Product Design

Product Analysis and Improvement

Building the project

In addition, you will use Inventor, the same software you used in the middle school which is a state of the art 3-D design software package from AutoDesk, to help you design solutions to different design projects.

Working in teams, you will learn about documenting your solutions, solving problems, and communicating your solutions to other students and members. Students will also learn how to program a CNC mill to cut out parts of your project and how to operate the laser engraver to apply details.

ART

Class	Year
Art Foundations	Every
Ceramics I	Every
Ceramics II	Every
Drawing	Every
Painting	Every
Sculpture I	Every
Rare Mediums	Every
College Prep Art	Every
College Prep Ceramics	Every
Advanced Drawing and Painting	Every

YELLOWJACKET ART CREDO

"The work one does in the classroom represents not only yourself, but your family, your instructor, your school and your community. That is why we must work to be excellent and produce the best possible product." Mr. Butenhoff

The Perham Visual Arts Department is preparing students to be quality individuals who will contribute to communities and society of the 21st Century through creative skills, concepts, and imagination. We believe these traits are vital traits for lifelong learning and success. Visual Art helps stimulate problem solving capabilities through inspired and exploratory practice. It allows expression through a universal language and is a necessity to mankind as it has been for many centuries. **ART I Foundations is a prerequisite course for all upper-level art electives.** This course will give you a basis for future art exploration.

Exceptions can be made to the prerequisite requirement for seniors with approval of the Department Chair. These seniors would have been enrolled in 2 of the 3 fine art music courses, such as band, choir or orchestra and have not been able to fit an art course into their schedule in their 9-11th grade years.

NOTE: There may be fees for some courses depending on materials needed for projects.

Art Foundations

One Trimester

002010

Grades: 9-10-11-12

THIS CLASS IS THE PREREQUISITE TO ALL UPPER-LEVEL ART COURSES (Senior music students may find exemption from prerequisite with approval of course instructor).

This developmental art class introduces students to learning processes and concepts of art, art history, art



criticism and aesthetics, as well as the production of art. Students will discover and comprehend the Elements and Principles of Art and Design. Students are exposed to a variety of art mediums to create a number of original artworks in 2D and 3D. They will develop the creative thought processes. They will also use methods of investigation as they explore art history and research artists of varying time periods and movements. It's easier to enjoy art when we understand it, so Art I is a great introduction class to the world of Visual Arts.

Ceramics I
One Trimester
002025,

Grades: 10-11-12
Prerequisite: Art Foundations

THIS CLASS IS A PREREQUISITE TO ALL ADVANCED CERAMIC COURSES This class will work with three different creative aspects of clay. Students will comprehend the key terms, methods of design, and physical traits of clay. These aspects are hand construction pieces, wheel thrown pottery and clay sculpture/tile works. The students will spend approximately one-third of their time in each area. Hand construction will consist of slab, coil, pinch and molding types of construction. Wheel thrown pottery will consist of pots made using the potter's wheel. The sculpture portion will provide opportunity to work in 3D, tile design/relief sculpture, or creative functional pieces. Students will learn an array of ways to glaze and design finishing touches onto clay pieces. A great class to get introduced to a lifetime artisan craft.

Ceramics II
One Trimester
002026

Grades: 11-12
Prerequisite: Art Foundations & Ceramics I

CLASS SIZE IS LIMITED (Sophomores can register but juniors and seniors have priority) This advanced class will have the chance to improve on the skills learned in their first pottery/sculpture class. You will become a potter at the next level. You will learn how to create designs on pottery using fluting, faceting, graffito, and incising. You will learn to calibrate to make matching pieces such as cups/mugs, lidded pots, and nesting bowls. Work more with large hand built pieces, a sculpture piece and/or decorative tile work. 50% of the student's time will be spent constructing on a throwing wheel. Students will finalize the course with a final masterpiece.

Drawing
One Trimester
002020

Grades: 9-10-11-12
Prerequisite: Art Foundations

This offering is designed to challenge students to improve their abilities in the 2-dimensional areas of drawing and to develop techniques in design and graphics. Students will work on exploring techniques that will assist them in learning how to sketch and compose. We will learn to draw portraits, figure drawing, proportions, landscapes, wild life, perspective, cartooning, while learning about composition and layout. Some mediums used are graphite, color pencil, pastels, charcoal, pen and ink and graphic markers. While learning these concepts and skills students will also look at masters in drawing and review Art history through analysis and review. This course is a core class at developing skills for those who are seeking a future in an Art Career.

Painting
One Trimester
002021

Grades: 10-11-12
Prerequisite: Art Foundations & Drawing

Students will develop high-level skills using different painting techniques and mediums. Mediums used will be pen and ink, watercolors, acrylics, and oil paints. Students will analyze many of the different styles of painting and work at developing a style of their own. The students taking this class will have the opportunity to work from the realistic, surreal, or abstract styles of painting. This is a great preparatory course for one who is seeking to study Art and Design at a post-secondary level.

Sculpture
One Trimester
002038

Grades: 10-11-12
Prerequisite: Art Foundations

To do sculpture one must work in the 'round' This means you will be making projects that are 3- Dimensional. We will make pieces that are realistic in form to abstract. Students will work with clay, wire, wax, plaster, reclaimed junk, with possibilities of stone and wood. Pieces will be designed traditional by sketching and with the use of modern 3D printing and design. Pieces could be designed to be decorative or functional. If you are a person who enjoys working with your hands, this is the art course for you.

Rare Mediums

One Trimester

002011

Grades: 10-11-12

Prerequisite: Art Foundations

Rare Mediums is a unique course. In this art course, students will work in non-typical art mediums to construct projects. Projects and mediums can range from jewelry; collage, mosaics, printmaking, wood burning, glass etching, and traditional black and white photography. The wide range of projects allows students to construct pieces from the vast world of unique mediums of Visual Arts.

Advanced Drawing and Painting

One Trimester

Grades 11-12

Prerequisite: Art I Foundations, Drawing, Painting

Advanced Drawing and Painting is an upper level course for art students who love to compose works in the drawing and medium forms. You will be asked to push yourself to improve techniques, work with new mediums, maybe combine mediums, and experiment in styles of drawing and Painting used in time. As a student, you will be asked to study a famous style of drawing or painting, and research a famous painter in that style. Then you will produce your own work in the famous style. Along with this work you will be allowed to produce pieces of your own choice.

College Prep Art Study

Two Trimesters

002035

Grades: 11-12

Prerequisite: See below

Requirements for Independent Art are as follows:

1. *Must be a junior or senior.*
2. *Must have completed 3 other Art courses including Art I.*
3. *Must design, plan and discuss objectives (projects) and goals for each piece with the instructor prior to the start.*
4. *Produce a community project piece or mural project from a list collected by the instructor.*
5. *Compose a rendition piece by studying a famous style/movement along with Artist(s) in Art History. And following that piece with a paper on the Artist(s) and movement.*
6. *Keep a daily journal on a project of free choice, then use that journal to write up a complete lesson plan for the project.*
7. *Students will produce 4-6 major projects during the over the trimesters.*

This is a course to prepare you for post-secondary art studies. It is NOT a college credit course. As an independent art student one will be able to do a more ***intense study*** of a favorite medium or to explore mediums, which they have not worked in yet. As an independent student ***you will be expected to do larger works and more difficult works.*** One may develop one's own style in your favorite mediums as well to experiment and explore with new methods and mediums. Students will take on public projects such as mural paintings or commissioned work. If a student is planning on attending a post-secondary art program, this is the ideal class to create a portfolio. You will challenge yourself and the instructor. Expect to work hard on your art talents. As you should have gathered from the above description this course is high in rigor and expectations! I expect if you are in this class you love to do art. You are a student who has excelled in your previous Art courses. If you are not serious about your work and art, think carefully about enrolling in this class. It is wise to talk to the instructor before making your decision.

College Prep Ceramics

Two Trimesters

002036

Grades: 11-12

Prerequisite: Ceramics I & II

You are now at the level of working with clay that you are seriously making it a distinct part of your life. Not only are you going to experiment and construct in advanced methods of clay but you will be asked to take part in the maintenance, firing, and the dirty work of clay. You will learn to load and unload kilns, pug mill

clay and even do some mixing of glazes. And/or assist beginning Pottery Students. Students will have the opportunity to work in the RAKU process again as well. You can use Stoneware or Porcelain but think about which one would be best for the construction method.

Types of projects required.

*3 manipulated/distorted/altered wheel pieces. 1 of the 3 must be a two part sectional piece.

*Large Tile or wall Decoration piece. Or a Mosaic image constructed from scratch.

*Matching series of cylinder type flower vases. Can be storage jars or? MUST BE cylinders. *A 6 or more piece matching functional set. ie; Table centerpiece set. Bathroom set. Table Set. *A Sgraffito carved Porcelain piece using an engobe. Or *A Iron Ink Decal Image Piece. *Large 3D Sculpture. Can be realistic like a bust, or animal, OR Abstract in design. Maybe a Personal Portrait Box/Container.

*Investigative/Research Project: Research and find a style unique and interesting that you would like to try while at the same time putting your own twists and brand onto it.

BUSINESS EDUCATION

Class	Year
Accounting I & II	Every
Advanced Accounting I & II	Every
Business & Personal Law	B
Entrepreneurship	B
Introduction to Business	Every
Marketing & Sales	A
Personal Finance	Every

Accounting I & II

Two Trimesters

001611, 001612 –Must Register for Both

Grades: 10-11-12

The Perham High School Accounting I program serves an important function. It provides students with a valuable tool for a variety of career and personal objectives. This introductory course will provide the students with an understanding of the basic accounting principles to be used in related business fields, as vocational preparations, for continued study, or in personal financial activities. This course covers the basic accounting cycle for service and merchandising businesses. Topics include the analysis of business transactions, recording transactions in a variety of journals, and the preparation of financial reports. Students begin this one-year course with the basic accounting cycle and proceed to more complex activities. Emphasis in this course will be on learning and using bookkeeping basics.

Accounting II program is a necessary follow-up to Accounting I. This course allows you to go beyond the level of using accounting on a personal level. In Accounting II you will work on procedures for a partnership/corporation. The class will help you to have a proficiency level of accounting that could be applied in the business and personal world. This course covers the basic accounting cycle for service and merchandising businesses. Topics include the analysis of business transactions, recording transactions in a variety of journals, and the preparation of financial reports. Students begin this second trimester course with the basic accounting cycle and proceed to more complex activities. Emphasis in this course will be on learning and using bookkeeping basics.

Advanced Accounting I & II

Two Trimesters

001659, 001660 – Must Register for Both

Grades: 11-12

Prerequisite: Accounting I & II

Advanced Accounting I prepares a student who is pursuing a career in accounting or a business related field. In the first trimester, the student will complete tax returns, do cost analysis in a manufacturing business, journalize transactions, post to ledgers, complete financial reports, process a payroll and also complete an integrated business simulation. The student will also maintain finances of business, analyze business expenses/organizational costs including environmental costs and apply personnel management procedures.

In Advanced Accounting II, the student will continue to apply the fundamentals of accounting and business management through informed decision making. Advanced Accounting II students learn to apply the following business management strategies: be able to analyze and interpret financial information, understand advanced techniques for preparing accounting records, the student will gain an understanding of current work-related laws and how they affect employment. The student planning to major in business will find a second year of accounting beneficial.

Business & Personal Law

One Trimester

001630

Grades: 11-12

Business and Personal Law will help students become aware of their legal obligations and rights in order to avoid legal difficulties. It covers the areas of law, justice, agreements, contracts, credit, property, protection against loss, and working for others. Businesses operate in a society and world, which have laws emanating from different governmental and judicial entities. The Business and Personal Law curriculum addresses laws affecting both business and families. In the litigation-oriented society we live in today, business law can fill a critical role in the development of all students. Business students, in particular, must have included in their academic preparation a basic foundation of the legal system. You will complete an in-depth study of a legal issue, read and analyze legal case studies, and acquire knowledge from simulated activities, videos, and speakers.

Entrepreneurship

One Trimester

001664

Grades 11-12

This course is designed to help students to acquire the knowledge and develop the skills needed to effectively organize, develop, create and manage their own business. Students will develop a written business plan for a business of their choice. Students will learn how to attract investors, market their business, manage finances, deal with legal issues, and manage human resources in today's global marketplace. There will be an ongoing project where each student will develop a business plan for a new business of each student's choice. This plan will include a description of the business, location, products and services offered, pricing, analysis of competition, market survey and analysis, marketing strategies, organizational structure, legal issues, business forms, sales projections, and financial plans.

Introduction to Business

One Trimester

001600

Grades: 9-10-11-12

Introduction to Business is a class to demonstrate how the American business economy operates. The student will discover their own aptitudes, abilities and interests in accounting, finance, entrepreneurship and general business organizations. The student will also need to make decisions as consumers, wage earners, and citizens within the economy. It stresses the importance of time management and effective face-to-face and media communications. The class combines concepts with practical applications to real world situations. Students will be prepared to make decisions as consumers, wage earners, and citizens within the economy.

Marketing and Sales

One Trimester

001663

Grades: 11-12

Marketing and Sales will explore the activities involved in the foundations and functions of marketing products, services, images, and ideas. Students will learn about developing, promoting, and distributing goods and services to satisfy customer needs and wants while also learning how businesses market to us as consumers. The class will also discuss the importance of marketing in many different areas from small hometown business to large corporations. The class will visit a variety of small and big businesses in Perham to see the marketing methods in action.

Personal Finance

One Trimester

001640

Grades: 11-12

Personal Finance will inform students how individual choices directly influence occupational goals and future earnings potential. Areas of study include personal financial planning, financial services, budgeting, investing and saving, interpreting financial statements, insurance issues, taxes, credit management and consumer purchases, rights and responsibilities. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

CARPENTRY

Class	Year
Advanced Woods	B
Exploratory Shop	Every
Woods	Every
Wood Sculpture *Counts toward Art Credit	A

Advanced Woods

One Trimester

001718

Grades: 10-11-12

Fee for materials

Prerequisite: Woods and Exploratory Shop

This course will allow students to design and construct a project of their choice. Students will be required to develop their own working drawing, bill of materials, and plan of procedure.

Exploratory Shop

One Trimester

001705

Grades: 9-10-11-12

Students will explore all areas of Industrial Technology from welding to wood projects and more. This course is a prerequisite to all carpentry electives.

Woods

One Trimester

001713

Grades: 10-11-12

Fee for materials

Prerequisite: Exploratory Shop

This course will allow students to design and construct a project of their choice. Students will explore approaches to woodworking, cabinet construction, joinery and finishing techniques. Students will be required to develop their own working drawing, bill of materials, and plan of procedure.

Wood Sculpture

One Trimester

001717

Grade: 10-11-12

Fee for materials

Prerequisite: Exploratory Shop

This course is designed to provide students with the opportunity to explore a more artistic facet of woodworking. Students will be allowed to carve any object, but the focus will be on waterfowl and fish decoys. There is a long-standing tradition in Minnesota and particularly in this area that involved the outdoor sports of hunting and fishing. Students will research the history of dark house spearing or waterfowl hunting in Minnesota, design and construct a decoy, evaluate the final product and present it to an audience.

Several carvers from this area are becoming famous and are reaping the benefits of their talent and efforts. These people will be called upon to demonstrate their skills and act as resources for the students. Students will experiment with different materials and finishing techniques. Instruction and support will be provided as the students produce a replica or representation of a Mallard, Walleye, Loon, or whatever interests them. Most materials will be provided free to the students.

COMMUNICATION

Class	Year
Public Speaking	Every
Debate	A
Film Studies	B
Video Productions *Counts as technology credit	Every

Public Speaking

One Trimester

000150,

Grades: 9-12

This class is a mandatory class for ninth grade students to discover the need for effective communication skills in the workplace and in their lives. Intrapersonal and interpersonal communications skills will be examined. Students will research, organize, perform, and evaluate. This is a hands-on course with the majority of the class focus researching, speaking, and listening skills. Students will have the opportunity to interview professionals and research careers. The Internet, computers, and other technology will be accessed by students to enable them to communicate with the world.

Students will conduct primary research through the Career Shadow/Primary Research Day. Students will shadow a parent or guardian at their place of business to gather vital career and communication data.

Debate

One Trimester

000170,

Grades: 10-11-12

Prerequisite: Introduction to Public Speaking

Students will be able to experience various forms of debate. The course will focus on credible cited research, controversial debatable topics, and effective public speaking strategies. Students may debate in front of small audiences. Outside speakers will also be part of the course curriculum. The class will be great for those who enjoy debate.

Film Studies

One Trimester

000171

Grades: 11-12

Prerequisite: None

One of the main goals of Film Studies is to examine attitudes and assumptions about film. In fact, film really is entertaining, and it really is complex. It employs two channels--sound and image--and it is culturally important, blurring distinctions between art, entertainment, and mass communication. It poses major problems for--but it offers new possibilities to--traditional categories of cultural criticism.

Students will view, research, and analyze Pop Culture through film of each decade. In each decade, the students will view, research, and discover literature, fashion, trends, music, leaders, economy, and stories of the decade through film. Generating and asking the Essential Questions of Pop Culture will move the students into each decade and discover messages of film and its influences on future trends. This class incorporates many new technologies and is paperless.

Video Productions

One to three Trimesters

000163

Grades: 10-11-12

Video Production is a hands-on course that teaches students modern media production techniques and encourages them to think critically about how media is produced and consumed in the 21st century. Coursework will include videography, photography, social media, graphic design, copywriting, and public speaking, along with a wide range of editing and post-production techniques utilizing high-tech software and equipment. Additionally, students will have opportunities to travel outside of the school and work alongside professionals in various media-related settings. Students who complete this class and demonstrate responsibility will have the chance to join "PerhamTV", a student-run video production team that live-streams Perham High School sports and activities.

ENGLISH

Class	Year
9 English I & II	Every
10 English I & II	Every
11 English I & II (American Literature)	Every
Creative Writing	Every
Myths & Legends	Every
Science Fiction & Fantasy	Every
Teens & Social Justice	Every
English 12	Every

9 English

Two Trimesters

000103, 000104

Grade: 9

In this course, students will read a variety of American and world literature, including short stories, novels, plays, and nonfiction selections. A variety of writing skills will be reviewed, developed, and reinforced using the NCREL Six Trait Writing Model. Skills for effective research will also be further developed.

10 English

Two Trimesters

000061, 000062

Grade: 10

Prerequisite: English 9

In this course, students will continue to study literature, including short stories, novels, poetry, plays, and non-fiction selections. A deeper understanding of how the literary terms can be used as tools of analysis will be stressed through class discussion, projects, and introduction to the literary essay. Students will also work to refine their writing skills and idea development. Skills necessary to do effective research will be further developed through close reading and analysis.

11 English

Two Trimesters

000055, 000056

Grade: 11

Prerequisite: English 9 and 10

Students in this course will read a variety of texts with emphasis on American literature though author purpose and historical influence. Further emphasis will be on improving reading skills, critical thinking, familiarity with literary terms, and literary analysis. Writing, vocabulary, and grammar assignments will be done both individually and in groups. Students will also be introduced to the art of research.

Creative Writing Composition

One Trimester

000080

Grade: 12

Prerequisite: English 9, 10, 11

This course is designed for students to explore various types of writing styles through reading and writing. The focus will be on expression through the use of words and structure to fulfill meaning and purpose through writing.

Myths & Legends

One Trimester

000049

Grades: 12

Prerequisite: English 9, 10, 11

Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. They will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.

Science Fiction & Fantasy

One Trimester

000047

Grades: 12

Prerequisite: English 9, 10, 11

This class will examine science fiction and fantasy through various genres and media. Students will explore the history of science fiction and fantasy and trace responses to changing social conditions, including the fears and anxieties that surround advancements in science and technology.

Teens & Social Justice

One Trimester

000042

Grades: 12

Prerequisite: English 9, 10, 11

This course will use various genres to explore issues teenagers face in a diverse and changing world. Through activist strategies, students will raise awareness of an issue and build support for positive change. Activities may include reading and writing assignments that enable students to reflect upon how their actions have the potential to evoke social change.

English 12

One Trimester

000045

Grades: 12

Prerequisite: English 9, 10, 11

English 12 explores modern literature and writing. There is a focus on practical English skills and business communication.

ENGLISH AS A SECOND LANGUAGE (ESL)

Class	Year
Advanced ESL I, II, & III	Every
Beginning ESL I, II & III	Every

Advanced ESL

001083 – Tri 1

001084 – Tri 2

000062 – Tri 3

Grades: 9-10-11-12

This course increases students' English language proficiency enabling them to better participate in content courses. Advanced verb tenses and grammar are introduced and practiced. More challenging reading and writing skills are practiced.

Beginning ESL

001080 – Tri 1

001081 – Tri 2

001082 – Tri 3

Grades: 9-10-11-12

This course is an introduction to the English language and teaches basic communication skills. Basic verb tenses and introductory grammar are introduced. Reading and writing skills are also practiced in this course.

FAMILY AND CONSUMER SCIENCE

Class	Year
Advanced Quilting *Counts as Art Credit	B
Creative Cookery	B
Creative Living	A
Family Living	B
Fashion Home Design	A
Lifetime Nutrition and Wellness	A
Parenting & Child Development	Every
Pro Start I Culinary	A
Pro Start II Culinary	B
Quilting *Counts as Art Credit	Every

Advanced Quilting

One Trimester

001853

Grades: 10-11-12

Prerequisite: Quilting

Class Fee: If you use class-provided backing, the fee is \$30. If you buy your own backing the fee is \$15

Students would be able to make another quilt, but a different pattern from the pattern used in Quilting 1. They would also have the option of making a wall hanging or garment. Much of this class will be self directed once students have chosen their fabric and pattern. **Students are responsible for the cost of the material. This may range from \$30.00 - \$75.00. (this is in addition to the class fee)**

Creative Cookery

One Trimester

001815

Grades: 10-11-12

Students will explore the traditional cuisine and culture from different countries including Mexico, France, Italy, China, Germany, India, American regions, and Scandinavian countries. Food labs, demonstrations, and special projects will be included. Students will learn how to prepare dishes with gourmet flair from many regions while discovering ethnic customs unique to each country. Students will have an opportunity to earn the Serve-Safe certificate upon completion of the Serve Save curriculum and exam.

Creative Living

One Trimester

001851

Grades: 9-10-11-12

Creative Living is an introductory course to Family and Consumer Sciences. Students will be exposed to many topics including personal wellness, promoting strong families, relationship skills including friendship and dating, nutrition, food preparation, childcare and parenting. The course is a sampling of the different courses that are essential to Family and Consumer Sciences and are at the heart of basic living skills. Each unit lasts 2-3 weeks and students will decide which areas are their priorities. Students will become actively involved through discussions, labs, activities and projects.

Family Living
One Trimester
001810

Grades: 9-10-11-12

Students will begin by gaining an understanding of themselves including personality traits, self-esteem, and communication skills. Family life and experiences will be thoroughly explored, including family diversity and health. Topics covered include dating, love, engagement, marriage, divorce, remarriage, parenting, handling crisis and death, and methods to improve family functioning.

Fashion and Home Design
One Trimester
001855

Grades: 10-11-12

Fashion and Home Design will focus on fashion relating to both clothing and home decorating. The elements and principles of design, clothing trends, and wardrobe planning will be explored. Color analysis, purchasing and arranging furniture, floor plans, and the selection of flooring, wall, and window treatments will be discussed. We will examine careers in fashion design, retail, and interior design. A combination of labs, lectures, and projects will be included in this course.

Lifetime Nutrition and Wellness
One Trimester
001860

Grades: 10-11-12

This course analyzes nutrition and wellness practices that enhance individual and family well-being. The purpose of this course is for students to recognize and understand how diet influences overall wellness. The relationship between nutrition and heart disease, diabetes, hypertension, high cholesterol and some forms of cancer will be examined. Students will analyze factors that influence nutrition and wellness as well as different needs throughout the lifespan. Students will also examine physical, emotional, social and psychological components to individual and family wellness. Students will prepare healthy dishes in conjunction with this course.

Parenting and Child Development
One Trimester
001820

Grades: 11-12

Prerequisite: None

The focus of this class is practical preparation for the responsibilities of parenthood and/or a career involving children. Human development from conception through the age of five will be studied through readings, lectures, child observations, and interaction with children. Various stages of social, emotional, intellectual, and physical development will be examined. Special topics that will be covered include prenatal development, infant care, toddler development, discipline, diet, and safety.

Pro Start I Culinary Course
One Trimester
001840

Grades: 10-11-12

Be a part of a culinary course which will introduce you to career opportunities within the restaurant and food service industry. Units include: Kitchen Basics, Equipment and Tools of the trade, Importance of Good Nutrition, Breakfast Foods and Sandwiches, Kitchen Safety, Salads and Garnishes, Working with Fruits and Vegetables, Operating a Business, and learning how to work well with people.

Pro Start II Culinary Course
One Trimester
001841

Grades: 10-11-12

Prerequisite: Pro Start I

This course will examine the History of the Food Service Industry, the preparation of Potatoes & Grains, Desserts & Baked Goods, Meat, Poultry & Seafood, Stock, soups & Sauces. Learn more about business ownership, marketing, creating menus and communication on the job. At the end of the course, students may take the National Restaurant Association Pro Start final exam to earn a Certificate of Achievement.

Quilting

One Trimester

001852

Grades: 10-11-12

Class Fee: If you use the school's backing, the fee is \$30. If you buy your own backing the fee is \$15. The focus of this class is on basic sewing skills which will be acquired through learning information on quilting history, origin and today's quilts, fabric care, using patterns, following directions and measurement skills will also be studied. Students will learn the latest techniques to create a quilt of their own. **Students are responsible for the cost of the material. This may range from \$30.00 - \$75.00. (this is in addition to the class fee).**

HEALTH & HEALTH SCIENCES

Class	Year
Community Health	Every
Certified Nurse Assistant	Every
Exercise Physiology	B
Kinesiology	A
Dental Assistant Internship	Every

Community Health (Required)

One Trimester

001234

Grade: 10-11-12

Prerequisite: None

This health class is designed to allow for completion of the Individual and Community Health Decision Making Standard. The student will be expected to demonstrate an understanding of the decision-making processes and community health practices that promote healthful nutrition and dietary practices, physical fitness, and that reduce and prevent tobacco use, drug and alcohol use, intentional and unintentional injuries, HIV, sexually transmitted diseases, abstinence and unintentional pregnancies. Students will receive (upon successful completion) a CPR & Standard First Aid card from the American Red Cross.

Certified Nurse Assistant

One Trimester (2 HOURS)

001692

Grades: 11-12; Must be 16; course if offsite

Prerequisite: Biology

Fee: CNA Test fee

This focuses on Nursing Assistant LTC. It prepares the student for eligibility to take the State Registry Exam for NA. The Nursing Assistant course is recommended for anyone seeking a position as a nursing assistant in a nursing home or hospital. It is approved by the MN Department of Health and prepares the students for eligibility to take the State Registry Exam for Nursing Assistant. The emphasis on learning skills to meet the psychological and physical needs of geriatric clients in long-term care settings.

Exercise Physiology

One Trimester

001237

Grades: 10-11-12

Prerequisite: 9th Grade Phy Ed

This course will be an in-depth concentration on studying the latest scientific research on physical conditioning, sports training, nutrition, energy transfer, energy recovery, exercise training, sport psychology, body composition, weight control, anaerobic function, aerobic function, cardiovascular function, respiratory function, injury prevention, and rehabilitation. This course will be a combination of classroom work, lab work, and gym work.

Kinesiology

One Trimester

001238

Grades: 10-11-12

Prerequisite: 9th Grade Phy Ed

This course will study human movement and will address physical, psychological, and mechanical mechanisms. Applications of Kinesiology to human health will include studying strength and conditioning, sports psychology, sport, exercise and rehabilitation.

Dental Assistant Internship (Schedule through School to Work)

All year (More than one hour)

Grades: 11-12

Prerequisite: Application and Approval

This course prepares students for a career in dental assisting. You will work at a dental office performing tasks assigned. This course is offered during hour 6 so you can work a shift set by the dental office.

MACHINING, MANUFACTURING & MECHATRONICS

Class	Year
Jacket Manufacturing	Every
Manufacturing	Every
Mechatronics	Every

Jacket Manufacturing

All year 2 blocks each Trimester; may be one block if approved

001726 – Trimester 1

001727 – Trimester 2

001728 – Trimester 3

Grades: 11-12; grade 10 if approved by instructor in interview process

Prerequisite: Interview process and instructor permission

This program is a student-run business operating for two hours every day during 4th and 5th hour. We will focus on all aspects of today's manufacturing industry and stress the soft skills. Students are responsible for quoting jobs, manufacturing parts, quality control, shipping and receiving, invoicing, customer service, accounting, machine maintenance, and all other responsibilities of running a business. This class should not only perfect the skills that a student already has, but also teach students new skills relating to hands on experience as well as written, verbal and computer communication.

- Students will be expected to represent the program in and out of the classroom and shops.
- Students must be passing all other classes.
- Students will be expected to be leaders and team players.
- Students must fill out an application, go through the interviewing process.
- Students will be removed from the program if they cannot follow the guidelines.

To view a video description on this class go to <https://www.youtube.com/watch?v=aX694-mFjSo&feature=youtu.be>

Manufacturing

One Trimester

0001703

Grade: 11-12

Manufacturing is a course designed to develop the knowledge and skills that go into setting up a manufacturing company. Generating entrepreneurial ideas, developing marketing strategies, designing a product, doing cost analysis, and eventually manufacturing the product are all skills needed to make a manufacturing company succeed. Students will use skills and knowledge gained in previous Agriculture and Industrial Technology courses and apply them toward the production of a product of their choice.

Mechatronics

One Trimester

001701

Grade: 10,11,12

Mechatronics and automation technology has become increasingly important in the field of engineering. It helps to improve both the working and living conditions by ensuring high productivity and quality. Mechatronic combines the math and sciences with technology to create automated systems we use every day. Students will be given hands-on practice with automated technical systems in order to observe and understand how subsystems and components interact.

MATHEMATICS

Class	Year
Algebra IIA, IIB & IIC	Every
Algebra IID	Every
Algebra IIIA & IIIB	Every
AP Calculus I, II, & III	Every
AP Stats A, B, & C	Every
Everyday Mathematics	Every
Geometry A & B	Every
Intro to Computer Science	Every
Pre-Calculus A & B	Every
Trigonometry	Every

Math Track Options

	<u>4-year College</u>	<u>2-4 year College</u>	<u>Certification Programl or No College</u>
	Algebra 2A	Algebra 2A	Algebra 2A
<u>FRESHMAN</u>	Algebra 2B	Algebra 2B	Algebra 2B
	Algebra 2C	Algebra 2C	Algebra 2C
	Geometry A	Geometry A	Geometry A
<u>SOPHOMORE</u>	Geometry B	Geometry B	Geometry B
	Algebra 2D	Algebra 2D	Algebra 2D
	PreCalc A AP Stats (3 Trimesters)	Algebra 3A PreCalc A AP Stats (3 Trimesters)	Algebra 3A
<u>JUNIOR</u>	PreCalc B	Algebra 3B PreCalc B	Algebra 3B
	Trigonometry	Trigonometry	

<u>SENIOR</u>	AP Calc (3 Trimesters) AP Stats (3 Trimesters) College Algebra	AP Calc (3 Trimesters) AP Stats (3 Trimesters) Trigonometry College Algebra	Everyday Math
----------------------	--	--	---------------

- 5 (College-Level Rigor): AP Stats, College Algebra, AP Calc
Description: College-level rigor, with minimum of 3-4 hours of homework expected a week (varies from student to student), requires higher-level critical thinking skills
- 4 (College Prep: 2-4 year college): Pre-Calc A & B, Trig
Description: College prep, with minimum of 2-3 hours of homework (varies from student to student), requires critical thinking skills
- 3 (Tech School or 2 year college): Algebra IIIA & IIIB, Geometry (required)
Description: minor review of previously taught material, requires higher level thinking skills
- 2 (Math Life Skills): Everyday Math, Algebra II (required)
Description: brief review of previously taught material with introduction to higher level concepts
- 1 (Support and Transitional Math): Functional Math
Description: review of previously taught material

Algebra II A, B & C
Three Trimesters
000631, 000632
 Grades: 9

First trimester: First trimester will cover real numbers, equations, inequalities, fractions, linear equations, and systems of linear equations. Introductory study of Parent function and transformations.

Second Trimester: Second trimester will cover graphing and solving quadratic functions, simplifying and operations with radicals, operations with polynomials including exponent rules and factoring, and simplifying nth roots.

Third Trimester: Third Trimester will cover radical functions, exponential and logarithmic functions, and rational functions.

Algebra II D
One Trimester
000635
 Grade: 10
 Prerequisite: Algebra II A, IIB & IIC

This course will cover introductions to topics such as sequence and series, probability and statistics, and volumes and surface areas.

Algebra IIIA & IIIB
One Trimester each
000603, 000617
 Grade: 11-12

Prerequisite: Algebra II (9th grade), Plane Geometry (10th grade); If students have earned B's or higher in EACH trimester in their 9th Algebra 2 & 10th grade Geometry math classes they can replace this credit requirement with Pre-Calculus.

This course is a two-trimester course that focuses on functions and function notation, linear functions, polynomial functions, and a brief introduction to matrices. Other emphasis in this course will be to cover topics that fulfill the Minnesota Graduation Requirements along with topics covered on the ACT.

The second trimester (B) will contain an emphasis on rational functions, exponential and logarithmic functions, and basic conic sections.

AP Calculus AB (Advanced Placement)
Three Trimesters
000625, 000626, 000628
 Grade: 12
 Prerequisite: Pre-Calculus & Trigonometry

Advanced Placement Calculus AB is designed as college-level Calculus I. Students are encouraged to take the College Board AB Examination in May to determine college credit awarded. Extensive use of a graphing

calculator will be a major requirement of this course. The course covers 3 main topics: Limits, Differentiation, and Integration.

AP Statistics (Advanced Placement)

Three Trimesters

000629, 000630, 000633

Grade: 11 or 12

Prerequisites: Algebra II (1 year), Plane Geometry (1 year). Students must have earned at least a B- in their math classes EACH trimester of 9th grade Algebra II/10th grade geometry.

The topics for Statistics are divided into four major themes: exploratory analysis, investigating components of conducting a study, probability, and statistical inference.

I. Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns.

II. Data must be collected according to a well-developed plan if valid information is to be obtained. III. Probability is the tool used for anticipating what the distribution of data should look like under a given model.

IV. Statistical inference guides the selection of appropriate models.

The second trimester will continue these topics and cover test preparation for the AP exam. The exam will cost approx. \$30 to \$50. and will be the responsibility of the student.

A TI-84 graphing calculator is HIGHLY recommended as this will be the calculator we use in class discussions and on homework. They can be found on sales for approx. \$100.00, and can be used in AP Calculus and in college.

Everyday Mathematics

One Trimester

000685

Grade: 12

This class will provide students with lessons and units in which mathematics is used for every day, functional purpose. These will apply mathematics to real-world tasks that span a variety of professions/trades. Construction, Farming, Engineering, and HVAC and plumbing are just a few examples of the real world careers that are used in the course. There is also heavy emphasis on the financial side of everyday life. A basic application of statistics will be applied to the real world, everyday situations as well. Students will practice with checkbooks, loans, budgets, and if time learn about credit.

Geometry A & B

Two Trimesters

000641, 000642

Grades: 10-11-12

Prerequisite: Geometry A students must have passed Algebra II; Geometry B students must have passed Geometry A

This two-trimester course is mathematical exploration of shapes and other geometric objects. In the first trimester, students will learn about geometry basics such as naming angles, lines, line segments, and planes, general segment and angle proofs, angle pairs formed with parallel lines, and ways to prove two triangles are congruent. Second trimester covers the topics of properties of polygons, an introduction to trigonometry, graphical transformations, and properties of circles.

Intro to Computer Science

One Trimester

000619

Grades: 10-11-12

Prerequisite: 9th Grade Algebra II & 10th Grade Geometry

This is a one-trimester course (only available during the first trimester). During this course, you will learn the basics of programming in Java through creating their own interactive stories, animations, and games. In the process, learn to creatively, reason systematically, and work collaboratively.

Pre-Calculus A & B

Two Trimesters

000611, 000612

Grades: 11-12

Prerequisite: Algebra II, Plane Geometry, Algebra 3A & B – Students who maintain a B average or above in each trimester of 9th grade Algebra II & 10th grade Geometry can take Pre-Calculus A & B in lieu of Algebra 3. A & B.

This course is designed for the student who plans to pursue a career that requires a thorough mathematics background. The class has a lecture format and covers the following topics: Functions and function notation, linear and quadratic functions, polynomials functions, and a brief introduction to matrices. Trimester B will also involve rational functions, exponential and logarithmic, conic sections, and introduction to calculus.

Trigonometry
One Trimester
000624

Grades: 11-12

Prerequisite: Algebra II, Plane Geometry, Algebra IIIA & B /Pre-Calculus A & B – Students who maintain a B average or above in each trimester of 9th grade Algebra II & 10th grade Geometry.

This course is designed for students who plan to pursue a career that requires a thorough mathematics background. Course will be an introduction to the world of Calculus. In addition a great class to help review for the math portion of the ACT. This course should be taken after Algebra III/Pre-Calculus and before AP Calculus. The class has a lecture format and covers the following topics: Review of factoring methods, right triangles, degree and radian angle measurement, unit circle, trig graphs, trig functions and proving identities, and polar coordinates.

MUSIC

Class	Year
Band I, II, III	Every
Concert Choir I, II, III	Every
Treble Choir I, II, III (9th and 10th grade girls)	Every

Concert Band

Three Trimesters- Must Register for all Three

000805 - Tri 1

000806 - Tri 2

000807 - Tri 3

Grades: 9-10-11-12

Prerequisite: Instrumental music performance experience and permission of instructor. This is also a year long commitment. Students who would like to participate but cannot take all three trimesters need special permission from the instructor.

Concert Band musicians will learn a wide variety of musical literature while also learning some of the theoretical concepts used to create that music. Each student will also be held responsible for learning rhythmic and tonal technique appropriate for their grade level and development. There will be a lesson requirement in order to help further each students' progress. Both written and performance assessments will be used to check for comprehension.

Students will perform in three or four concerts throughout the year. These performances are mandatory, and attendance will be factored into students' grades. There will also be opportunities to participate in various festivals and contests, which may consist of solos, chamber groups, and/or large ensembles. Participation in these extra opportunities will be encouraged, but optional.

PHS Concert Band members are expected to participate in pep band. The pep band performs at home athletic events during the fall and winter sports seasons, which coincide with the first and second trimesters, respectively. Because pep band is a part of the class, students are expected to arrange their schedules accordingly, in order to attend half of the pep bands that take place during each of the first two trimesters. When conflicts cannot be worked out, alternate assignments may be given in place of pep band attendance. Students will be responsible for their own reeds and supplies. These may be purchased from the instructor.

Concert Choir

Three Trimesters

000853 – Tri 1

000854 – Tri 2

000855 – Tri 3

Grades: 9-10-11-12

Prerequisite: Audition with instructor

Concert Choir is a select mixed ensemble. If you are a 9th or 10th grade girl, you will enroll in treble choir unless you are also in band.

The goal of Concert Choir is for students to explore the very best examples of choral music that is accessible to high school voices. Concert Choir performs choral music of all time periods, genres, and styles. Concert choir members will sing in various languages including: Italian, Latin, French, German, Spanish, and several world languages including Haitian and Creole. The music is mostly a cappella, which means no accompaniment, and may divide into as many as 8-10 parts. Concert choir will perform several concerts throughout the school year. Concert attendance is mandatory and part of the choir member's grade. Each student will also be learning about various musical elements, including rhythm, musical symbols/theory, tone quality/production, analyzing and interpreting music, and music history. Perham High School's Concert Choir is an award-winning choir having performed in 6 states and 2 foreign countries. Concert Choir members are eligible to be a part of various trips and festivals throughout the school year.

Treble Choir
Three Trimesters
000851 – Tri 1
000852 – Tri 2
000856 – Tri 3
Grades: 9-10-11-12
Prerequisite: NONE

Treble Choir is an entry-level women's ensemble, open to all 9th-12th grade students. There is no audition necessary to join this choir. The goal of Treble Choir is to introduce students to new people, music, activities, and experiences. Treble Choir performs music meant specifically for women's voices. This music will be from different time periods, genres, and styles. Treble Choir members will sing in many languages including: Italian, Latin, French, as well as several African languages. The music can split into as many as 4- 5 voice parts. Treble choir will perform several concerts throughout the school year. Concert attendance is mandatory and part of the choir member's grade.

Each student will also be learning about various musical elements, including rhythm, musical symbols/theory, tone quality/production, analyzing and interpreting music, and music history. Treble Choir members will also be eligible to be a part of various trips and festivals throughout the school year.

PHYSICAL EDUCATION

Class	Year
9 th Grade Physical Education	Every
Dance	Every
Lifetime Fitness	Every
Personal Fitness & Body Composition	Every
Strength-Speed & Agility I, II, III	Every
Team Sports	Every
Weight Training & Conditioning	Every

9th Grade Physical Education

One Trimester

001239

Grade: 9

-Goal of this course is to enhance health and wellness by improving:

1. Muscular Strength
2. Aerobic Capacity
3. Flexibility
4. Body Composition
5. Skill Development in the following activities:

-Activities covering individual, dual, team sports:

-Indoor activities will include but not limited to: pickle ball, badminton, volleyball, basketball, weight training, big base, floor hockey, ultimate Frisbee, ultimate football.

-Outdoor activities will include but not limited to: football, soccer, softball, tennis

Fitness Activities keeping heart rates at a moderate to vigorous level

General Skill Development and play of above listed activities in a PE4Life Model keeping heart rates at a moderate to vigorous level

-Development of an Individual Fitness Plan:

* Progress covering 5 main areas of fitness: cardiovascular-muscular strength-muscular endurance flexibility-body composition

* Introducing a Lifestyle analysis: nutrition-exercise-rest-hydration

* Fitness Gram Test measuring 6 specific areas: aerobic capacity-percentage of body fat-abdominal strength and endurance-trunk strength and flexibility-upper body strength-overall flexibility

* The use of heart rate monitors covering: resting heart rate-target heart rate-maximum heart rate-target heart rate duration

* Weightlifting covering all machines and free-weight equipment

* Specific muscle groups involved in particular lifts and what lifts will improve those muscle groups (kinesiology-exercise physiology)

* Introduction to Brain Growth and Development: exercises effect on learning-brain growth-stress-anxiety depression-attention deficit-addiction-hormonal changes-aging

* Introduction of Leadership/Team Building covering: trust-communications-team dynamics-leading as a student

* Introduction to fitness facilities and equipment

* HIV, Sexually transmitted diseases, unintentional pregnancies, and abstinence.

Dance

One Trimester

001245

Grades: 10-11-12

Prerequisite: 9th Grade Phy Ed

This course will study and practice various dancing skills. Dance skills will include but are not limited to ballroom dance, Line dance, swing dance, country western, and latin dance. Students will be involved in dancing 5 days per week.

Lifetime Fitness

One Trimester

001236

Grades: 10-11-12

Prerequisite: 9th Grade Phy Ed

This course will focus on learning and experiencing lifetime fitness skills and activities related to improving a student's physical fitness knowledge and skills to be used for a lifetime. This course will include, but is not limited to the following activities: treadmills, elliptical, spin bikes, aerobics, yoga, biking, walking, jogging, golfing, racquetball, wally-ball, weight training, flexibility training, bowling, dancing, swimming, and Frisbee golf. Students will work out 5 days a week with one of the above listed activities.

Personal Fitness and Body Composition

One Trimester

001235

Grades: 11-12

Prerequisite: Community Health, and 9th grade PE

Goal of this class is to involve the students in a variety of healthy experiences and health careers. Students will develop an individualized fitness plan. Students will focus on lifetime fitness activities covering: aerobics, pilates, tae-bo. This class is designed for information, fitness, personal wellness and fun. 4 days per week keeping heart rates at a moderate to vigorous level

1 day per week following the PE4Life model keeping heart rates at a moderate to vigorous level

Review and Completion of a Individual Fitness Plan:

* Based on the rubric of 5 areas: Goal-Frequency-Intensity-Time-Type

* Progress covering 5 main areas of fitness: cardiovascular-muscular strength-muscular endurance flexibility-body composition

* Completing a Lifestyle analysis: nutrition-exercise-rest-hydration

* Fitness Gram Test Measuring 6 specific areas: aerobic capacity-percentage of body fat-abdominal strength and endurance-trunk strength and flexibility-upper body strength-overall flexibility

* Healthy Fitness Zone

* The use of heart rate monitors covering: resting heart rate-target heart rate-maximum heart rate-target heart rate duration

* Ability to work independently-partnered-grouped during fitness time

* Explore the various fitness activities that can be lifetime activities

* Brain Growth and Development: exercises effect on testing-memory-brain growth-learning-stress-anxiety depression-attention deficit-addiction-hormonal changes-aging-health

* Skill related physical fitness: agility-speed-coordination-balance-power-reaction time * Influences on Physical Fitness: maturation-physical activity-heredity -environment=Physical Fitness * Develop short and long term fitness goals

* Developing positive attitudes towards fitness activities rather than just short term improvements in fitness

* Tracking fitness results over time

* Completing a Leadership/Team building Plan: covering: trust-communication-team dynamics-leading as a student

* Advanced knowledge of fitness facilities and equipment

Strength-Speed and Agility I, II, II

One Trimester

001246 – Tri 1

001247 – Tri 2

001248 – Tri 3

Grades: 10-11-12

Prerequisite: 9th Grade Phy Ed

This course will be a high intensity fitness class with the goal of improving a student's strength-speed and agility. Daily workouts will cover but are not limited to weight training, sprinting, running, jumping, agility drills, unique training techniques and flexibility training. Workouts will be conducted in the weight-room, gymnasium, track, football field and wrestling room. Students will work out 5 days per week.

Team Sports One Trimester

001223

Grades: 10-11-12

Prerequisite: 9th grade PE

Goal of this course is to give students the opportunity and knowledge to fully develop a individual fitness plan and experience a variety of Team Sports

Activities include volleyball, basketball, wally-ball, floor hockey, team handball, speedball, football, soccer, softball, ultimate frisbee, frisbee golf

Fitness Activities Model keeping heart rates at a moderate to vigorous level

Team Sports Activities in a PE4Life Model keeping heart rates at a moderate to vigorous level

Completion of a Individual Fitness Plan:

* Progress covering 5 main areas of fitness: cardiovascular-muscular strength-muscular endurance flexibility-body composition

* Completing a Lifestyle analysis: nutrition-exercise-rest-hydration

* Fitness Gram Test Measuring 6 specific areas: aerobic capacity-percentage of body fat-abdominal strength and endurance-trunk strength and flexibility-upper body strength-overall flexibility

* Healthy Fitness Zone

* The use of heart rate monitors covering: resting heart rate-target heart rate-maximum heart rate-target heart rate duration

* Ability to work independently-partnered-grouped during fitness time

* Explore the various fitness activities that can be lifetime activities

* Brain Growth and Development: exercises effect on testing-memory-brain growth-learning-stress-anxiety depression-attention deficit-addiction-hormonal changes-aging-health

* Skill related physical fitness: agility-speed-coordination-balance-power-reaction time * Influences on

Physical Fitness: maturation-physical activity-heredity -environment=Physical Fitness * Develop short and long term fitness goals

* Developing positive attitudes towards fitness activities rather than just short term improvements in fitness *

Completing a Leadership/Team building Plan: covering: trust-communication-team dynamics-leading as a student

* Advanced knowledge of fitness facilities and equipment

Weight Training & Conditioning

One Trimester

001225

Grades: 11-12

Prerequisite: 9th grade PE

Goal of this course is to design and implement an individual workout program to improve strength and conditioning. There will be several workout programs available for the student to choose from. Students are encouraged to develop their own personal program.

Fitness Activities keeping heart rate at a moderate to vigorous level

Individual Weight Program Work

1 day per week in a Sport Activity in the PE4Life Model

Review and Completion of a Individual Fitness Plan

* Based on the rubric of 5 areas: Goal-Frequency-Intensity-Time-Type

* Progress covering 5 main areas of fitness: cardiovascular-muscular strength-muscular endurance flexibility-body composition

* Completing a Lifestyle analysis: nutrition-exercise-rest-hydration

* Fitness Gram Test Measuring 6 specific areas: aerobic capacity-percentage of body fat-abdominal strength and endurance-trunk strength and flexibility-upper body strength-overall flexibility

* Healthy Fitness Zone

* The use of heart rate monitors covering: resting heart rate-target heart rate-maximum heart rate-target heart rate duration

* Ability to work independently-partnered-grouped during fitness time

* Explore the various fitness activities that can be lifetime activities

* Brain Growth and Development: exercises effect on testing-memory-brain growth-learning-stress-anxiety depression-attention deficit-addiction-hormonal changes-aging-health

* Skill related physical fitness: agility-speed-coordination-balance-power-reaction time * Influences on

Physical Fitness: maturation-physical activity-heredity -environment=Physical Fitness * Develop short and long term fitness goals

* Developing positive attitudes towards fitness activities rather than just short term improvements in fitness

* Tracking fitness results over time

* Advanced knowledge of fitness facilities and equipment

* Proper use of weight machines, verti-max, plyometrics, free weights

SCIENCE

Class	Year
Anatomy & Physiology I, II	A
Astronomy	B
Biology I, II	Every
Chemistry I, II	Every
Environmental Studies I	Every
Environmental Studies II	A
Genetics/Biotech	B
Physical Science I, II	Every
Physics I, II	Every
Science Research	Every
STEM Science & Engineering	A
Zoology/Botany	B

Anatomy and Physiology

Two Trimesters

000429, 000430

Grade: 11-12

Prerequisite: Biology

This course is a study of the human body. The course is designed for the students that have an interest in the anatomical structure and physiological functions of the human. Course is recommended for any student pursuing a career in the health sciences. Dissection of animals will be a component of this course as well as a variety of lab activities.

Astronomy

One Trimester

000403

Grade: 10-11-12

Prerequisite: Physical Science & Algebra II

Astronomy is an introduction to the origin and structure of the universe through lecture and laboratory activities. The course will begin in the solar system, studying the Sun and the planets. Students will learn how to trace the motions of objects through the sky. We will explore the evolution of stars like the Sun within our own Milky Way galaxy and then take a grand step outward and observe the multitude of other galaxies which make up the universe. Students who complete the course will develop a greater understanding of the universe as a whole.

Biology I & II

Two Trimesters

000447, 000448

Grades: 10

Prerequisite: Physical Science or Permission of Instructor

This class is designed to give a student an understanding of the biological sciences. In this class a student will demonstrate an understanding of biological concepts, theories and principles through the study of: cell

theory, biological change over time, interdependence of organisms, material cycles, energy flow, behavior of organisms and the scientific method. Several projects and presentations will be required in order to attain the credit.

Chemistry I & II

Two Trimesters

000445, 000446

Grades: 11-12

Chemistry is an inquiry-based course that examines matter and the changes it undergoes. Experiments and activities are used to introduce topics such as measurement, matter and its properties, atomic structure, periodic table, chemical bonding, chemical reactions, stoichiometry, gas laws, and solutions. Students who complete the course will develop an understanding of the interconnections among the sciences, technology, and society, as well as recognize matter in its many and varied forms.

Students must pass Chemistry I to enroll in Chemistry II.

Environmental Studies I

One Trimester

000459

Grades: 10-11-12

This class is suited for the student who is going on to a technical college, community college or a four-year university and has an interest in the environment. The topics we cover in this class include: water quality, global warming, ecosystems, and invasive species.

The class is designed for students who have an appreciation of outdoor activity and are willing at times to get their hands (and shoes) dirty. Students will gain an understanding of our fragile global environment and the steps humans need to take in order to protect it.

Environmental Studies II

One Trimester

000460

Grades: 11-12

Prerequisite: Physical Science, Biology and Environmental Study I

This course is designed for the outdoor-minded individual who has a love for the environment and wants to understand how living systems are connected. It will focus on several issues but its main focus will be on local and regional environmental issues, in particular lakes, wetlands and fisheries. It will involve several field trips and will include presentations from individuals who work in the fields of fish and wildlife.

Genetics/Biotech

One Trimester

000401

Grade: 10-11-12

The purpose of this course is to provide an in-depth background in all areas of classic Mendelian genetics, non-Mendelian genetics and molecular genetics. Students will learn the techniques of gel electrophoresis, Polymerase Chain Reactions and genetic transformation. The final goal is for the student who successfully completes this course to be conversant in all of the areas of genetics and have sufficient basic knowledge to successfully move on and master advanced topics in genetics. This will be achieved by learning how geneticists solve problems and make new discoveries.

Physical Science I & II

Two Trimesters

000571, 000572

Grade: 9

This class is designed using a hands-on constructivist approach to science, as most topics covered in lecture are also covered in a lab situation. Emphasis is placed on understanding key concepts and problem solving skills. Students should expect to gain an understanding of "how things work" and how physics and chemistry affects their lives.

First trimester consists of the study of basic physics: force, motion, forms of energy, simple machines & electricity.

Second trimester consists of the study of basic chemistry: properties of matter, physical and chemical changes, periodic table of elements, chemical bonding, chemical reactions, and acids & bases.

Physics I & II

Two Trimesters

00041, 000412

Grade: 11-12

Prerequisite: Physical Science, Algebra II, Algebra III, and Plane Geometry

Physics is a quantitative, inquiry-based course that studies the physical world—what it's like, what it's made of, and how it all fits together. In physics, you will study everything from the innermost workings of the atom, to the interactions between entire galaxies in the universe, and more. Experiments and activities are used to introduce concepts such as kinematics, force, energy, momentum, electricity, magnetism, thermodynamics, and waves. Students who complete the course will gain critical thinking and problem solving skills, as well as develop a greater understanding (and appreciation) of the laws of the universe.

Students must pass Physics I to enroll in Physics II.

Science Research

One Trimester

090012

Grades: 9-12

Prerequisites: Instructor permission or teacher referral

This class will require an interview with a panel of teachers before you will be allowed to enter the class. Some students may be disqualified from participating in this class based on the interview process. Students selected to be in this class will design and conduct their own science experiment and are required to build a display and present at the Western Regional Science Fair at or near the end of the trimester.

Zoology/Botany

One Trimester

000402

Grade: 10-11-12

Zoologists, who also research the development of animal diseases, sometimes known as animal scientists or animal biologists because **zoology** is the branch of biology that deals with the animal kingdom.

Botany is the scientific study of plants. "Plants," to most people, means a wide range of living organisms from the smallest bacteria to the largest living things - the giant sequoia trees. By this definition plants include: algae, fungi, lichens, mosses, ferns, conifers and flowering plants.

STEM Science and Engineering:

One Trimester

000417

Grade: 10-11-12

Through problems that engage and challenge, students explore a broad range of engineering topics. Students develop skills in problem solving, research, and design, while applying math, science, and engineering standards to hands-on projects.

SCHOOL TO WORK

School To Work (6th Block Only)

001686 – Trimester 1

001687 – Trimester 2

001688 – Trimester 3

● **Students must be in good academic standing in order to enroll in STW**

● **Students must be able to provide their own transportation**

Instructor pre-approval is recommended.

This class is designed to allow students to explore their interest in a career and work with a mentor in the workplace. You will, however, be required to complete weekly journals, logs, and other assignments as assigned by the instructor.

You will be placed in a position in the surrounding community. Once an employer and teacher place you in your desired area, you will go to work and develop personal goals for your job. After each work day, you will journal and over time, you will assess your progress toward improvement via your journal and on-going conferencing with the employer and instructor. You can expect to learn about yourself and how to use your best skills to compliment your weak areas, as well as learning how to strengthen those weak areas. A Training Plan must be established and approved prior to the internship. A sincere interest in the occupation and excellent attendance is a MUST! A Training Agreement must be established and signed by the intern, parent(s), employer and the School-to-Work Coordinator. Internships may or may not include financial compensation.

SOCIAL STUDIES

Class	Year
9 Social I, II	Every
10 American History I, II	Every
Economics	Every
Geography	Every
Government	Every
National & World Affairs	B
Psychology	B
Sociology	A
Street Law	A
US History through Music and Media	A
World History	Every

9 Social Studies
Two Trimesters
000235, 000236
 Grade: 9

Civics I is the study of American citizenship. This class will cover the foundations of American Government, the US Constitution, the need for government, the rights of American Citizens. The three branches of American Government, The Executive, Legislative, and Judicial branch will be covered in-depth. Topics such as immigration, new citizens, and civil rights will also be addressed. Critical thinking skills will be developed as students discuss and analyze domestic and foreign issues.

Civics II is the study of American citizenship. America is a world model for democracy; students will challenge themselves to learn why America is looked to by other countries as a strong example of economic strength, individual freedoms and a democratic government that works for its citizens. Civics II will focus on the family, community, school rights, censorship, and economic involvement on a local, state, national and world level. Critical thinking skills will be developed as students discuss and analyze domestic and foreign issues.

10 American History
Two Trimesters
000231, 000232
 Grades: 10

American History will give students an opportunity to explore American History in ways that will be both educational and interesting. A chronological look at the events that shaped the United States will be uncovered by the student in a variety of ways. Special focus will also be put on the present, looking at current events and recent news that is the world the students are living in.

Objectives:

By the end of the course, students will be able to:

- comprehend key themes throughout American History through lectures, reading, projects, and tests
- research on the internet with efficiency, analyzing trustworthy resources
- analyze past events and relate them to how they have shaped their life today
- give an oral report

- compare and contrast themes throughout American History
- demonstrate that they can interpret the themes of each major war and how each shaped the United States national and foreign policies
- examine the key aspects of the Vietnam War and present a final PowerPoint

Topical Outline:

- Exploration and Discovery
- Colonization
- Constitutionalism
- The New Democracy
- Slavery
- Civil War
- Reconstruction
- Wild West
- Gilded Age
- Progressivism
- WWI
- Between Great Wars
- WWII
- Cold War
- Present Day

Economics

One Trimester

000214

Grades: 12

This class provides students with basic knowledge of how their choices affect our economy. Students can expect to learn about topics like supply and demand, money, taxes, government intervention in the economy, business organization, the health of the U.S. economy, and others. Students can expect to be part of frequent discussions and experiments.. The students should come away with a good understanding of why prices are set as they are, where their money is spent by the government, and how our government functions.

Geography

One Trimester

000223

Grade: 11

Geography of the World provides us with the values, knowledge, concepts, and skills to better understand ourselves, our relationship to the earth, and our interdependence with the family of humanity with whom we share the world. Understanding geography prepares students for an ever increasing global future and prepares us to look at the big picture. Students will also be able to understand physical systems that affect everyday life. Students will also study all the different regions of earth by looking at both the physical geography and the cultural geography.

12 U.S. Government

One Trimester

000213

Grade: 12

The goal of Government 12 Class is to prepare students to be an informed American citizen. Students will study the origins of the US Government, the foundations of building a workable and plausible government structure, understanding Federalism and the US Constitution. Students will gain in-depth knowledge of the operations of the three branches of American Government, studying the Congress, Executive Branch, and the Supreme Court. Students will be exposed to the political process, political parties, campaigns and voting procedures, domestic and foreign policies. Critical thinking skills will be developed as students discuss and analyze domestic and foreign issues.

National & World Affairs

One Trimester

000212

Grades: 10-11-12

The course will promote critical thinking skills by analyzing American's involvement in domestic and global issues. The focus of this class is to promote student's understanding and to expose them to current issues faced by society in today's world. Topics will include world leaders, war, weapons, economics, labor, environment, and a variety of other pertinent issues. Students will learn that ideological perspectives impact and change the world in which we live.

Psychology
One Trimester
000240
Grades: 11-12

This class is an introductory course into the subject of psychology. Students will be expected to learn about the pioneers of psychology, the basic approaches, the make-up and functions of the brain, sensation, perception, motivation, emotions, level of consciousness, learning, intelligence, mental disorders, and others. Students will also take part in a group presentation and an individual research project.

Sociology
One Trimester
000250
Grades: 11-12

Sociology is the area of social science that looks at human relationships; the thought process of “We are who we are because of who we interact with.” Sociology differs from psychology because sociology focuses on group behavior whereas psychology focuses on individual behavior. Most Social Scientists believe sociology and psychology are separated by the “nature vs. nurture” theory. Studies in sociology are interesting because it is applicable to our daily lives. We will take an in-depth look of how group behavior and interaction shapes and affects each one of us. The class is an excellent introduction to the founders of the social science of Sociology, basic sociological methods, theories, and human interaction. The course is highly recommended for those students who plan to pursue careers that require people interaction skills.

Street Law
One Trimester
000239
Grades: 10-11-12

Street Law is the study of practical law, the court system and crime. The course will prepare students to recognize and understand how the law works to promote fairness, equal justice, and individual rights. Court procedures, working with a lawyer, handling legal issues on your own, worker’s rights, consumer laws and protection, marriage and childcare responsibilities will be addressed. The class will cover criminal activities, serial murders, capital punishment, preparation for death and an individual’s right to die. The class is designed to expose and prepare students to deal with legal issues and crimes that they may encounter throughout their life.

History through Media and Music
One Trimester
000210
Grades: 10-11-12

Students will examine US and World History through the analysis of cultural media like music, musicals, film, and television. Students will examine changing cultural norms, demographic shifts, changing economies, cultural biases, technological innovations, and political changes. Special attention will be given to the decades of the 20th century with topics like Rock-n-Roll, the Cold War, impact of the World Wars, protest to the Vietnam War, and America in the 80’s and 90’s. (A parent permission release slip is required for this course)

World History
One Trimester
000227
Grades: 11

People live in the present, they plan for and worry about things in the future. The study of history is important to individuals because it helps us understand people and societies of the past. History helps us understand change and how the society we live in came to be. Understanding history is essential for good citizenship and this class will offer a world view of history. This course will focus on a few major thematic time periods in World History.

Those who do not learn history are doomed to repeat it.

SUPPORT SERVICES

Class	Year
Principal Work Study	Every
REACH	Every
Study Skills	Every

Principal Work Study

No Credit

008873

Grades: 11-12

Principal Work Study is an open hour students can have to work on homework if they are on track to graduate and in good standing. Students can have up to 4 principal to work classes total during their junior and senior year.

REACH

One Trimester

008600 – Tri 1

008601 – Tri 2

008602 – Tri 3

Grades: 9-10-11-12

The Jacket REACH program is designed to assist students in achieving their academic and personal best. This program pledges to teach students the skills needed to find success in life with an immediate focus on academics. It is a program prepared to assist students in identifying the challenges/obstacles in their present situations and will lead them through the steps needed to overcome these challenges by teaching the skills needed for lifelong success

Study Skills

Each Trimester

Grades: 9, 10, 11, 12

Prerequisite: Must be in Special Education and on an IEP

This is a resource room for support services with the Special Education Instructors.

Functional English

Each trimester

Grades 9, 10, 11, 12

Prerequisite: Must be in Special Education and on an IEP

This course is for students who receive special education services in English. It covers basic skills in English and can count as English credits for graduation.

Functional Math

Each trimester

Grades 9, 10, 11, 12

Prerequisite: Must be in Special Education and on an IEP

This course is for students who receive special education services in math. It covers basic skills in math and can count as math credits for graduation.

TECHNOLOGY

Class	Year
Cisco – IT Essentials	B
Computer Applications I	Every
Computer Applications II	Every
Multimedia Applications	A
Programming & Robotics	A
Web Page Design	B

Cisco-IT Essentials

One Trimester

000720

Grades: 10-11-12

This course focuses on configuring, diagnosing, and repairing microcomputers. Topics covered include how computers work, how software and hardware work together, the systems board, understanding and managing memory, floppy disk and hard disk drives, installing and supporting disk drives, troubleshooting fundamentals, supporting input/output devices, and multimedia technology.

Computer Applications I

One Trimester

000710

Grades: 9-10-11-12

Computer Applications I is an introductory course that covers the operation of the personal computer hardware and software (Microsoft Office). The course is an overview of a personal computer operating system, word processing, spreadsheet, presentation, e-mail, scheduling, Internet, and database management software. Students will create many types of personal and business communications, professional looking reports, charts, and multimedia presentations. Students will apply technology applications to solve and/or present solutions to problems and will develop skills with file management and network use.

Computer Applications II

One Trimester

000714

Grades: 10-11-12

Prerequisite: Computer Applications I

Computer Applications II is an advanced course that picks up where Computer Applications I left off, and will take students well beyond the fundamentals of using application software. Students completing this course will have a firm knowledge of application software and will be able to solve a variety of personal computer related problems. Students will develop advanced skills in designing and using templates, formulas, functions, and macros.

Multimedia Applications

One Trimester

000713

Grades: 10-11-12

Multimedia Applications is a course that provides students the ability to create leading-edge interactive web presentations using Macromedia's Fireworks 8 and Flash 8. Fireworks 8 is an editing tool used to create exciting graphic applications at both the artistic and technical level. Flash 8 will provide you with the skills to create interesting graphic-rich movies that include sound, animation, and interactivity.

Programming & Robotics**One Trimester****000715**

Grades: 10-11-12

Computer Programming covers an introduction to the Visual Basic programming language. It covers language basics and program structure. Topics include graphical interface design and development, control properties, event-driven procedures, variables, expressions, operators, functions, decision-making structures, and looping structures.

Classroom instruction also includes building, programming and troubleshooting Lego NXT robots. These units provide hands on learning and experience in the development and design of simple robots. You will learn the basics of using sensors and actuators to accomplish tasks and problem solve. Programming and designing with the NXT robots will help you better learn how to program and allow you to put your new skills to use in fun and unique ways.

Web Page Design**One Trimester****000735**

Grades: 10-11-12

This course will cover the purpose, design concepts, and creation of web pages as students learn how to produce and manage web pages and sites. This class will offer basic web design principles HTML, XHTML, CSS and web site file structure. They will learn web page programming standards and how to incorporate features such as audio, graphics and animation to enhance web pages. Students will have the opportunity to work with a variety of web authoring tools as they produce pages, such as Dreamweaver. By the end of this class students will be able to create a fully functioning website.

WORLD LANGUAGES

Class	Year
Spanish IA, IB	Every
Spanish IIA, IIB	Every
Spanish IIIA, IIIB	Every

Spanish I

Two Trimesters

001031 – Spanish I A

001032 – Spanish I B

Grades: 9-10-11-12

This course is a lively one, primarily of acquisition of the basic vocabulary needed for communication in Spanish. A substantial amount of vocabulary will be learned through a number of different strategies. Students will actively participate in learning this vocabulary through participation in listening, reading, writing and speaking activities.

By the end of the second trimester, students can expect to have gained an understanding of the concepts of person, number and (grammatical) gender, and how to apply those concepts in everyday communication.

General cultural information is also part of this course. Students can expect to learn about holidays that are celebrated in Spanish speaking countries in addition to numerous other cultural and historical themes deemed of interest by the instructor.

Spanish II

Two Trimesters

001041 - Spanish II A

001042 - Spanish II B

Grades: 10-11-12, or by prior discussion

Prerequisite: Spanish I A and Spanish I B

In this course, students will expand their vocabulary knowledge and grammar skills while writing, speaking, and listening in the Spanish language. In addition to reviewing present tense of verbs, students will also learn past tenses. The main goal of this course is communicating in Spanish. The Spanish classroom uses a physical approach to learning, which requires students to listen carefully to expand their own ability to understand and speak in the language. The students, through writing, speaking, and listening will apply the knowledge they acquired in beginning Spanish while using the elements learned in Spanish II.

General cultural information is also part of this course. While reinforcing the general knowledge taught in Spanish I, Spanish II strives to broaden students' ideas and understanding of the Spanish-speaking world.

Spanish III

Two Trimesters

001071 – Spanish III A

001072 – Spanish III B

Grades: 11-12, or by prior discussion

Prerequisite: Spanish I and II

This course is primarily one of application. The skills, grammatical elements, and vocabulary acquired and refined in Spanish I and II are used to write, listen, speak, and view in the Spanish language. Students are expected to work on assigned individual or group projects which require them to show an understanding of grammatical skills and the use of vocabulary. The grammatical elements and skills for oral and written communication are reviewed as needed while working on various projects.

While applying their skills in the language, students are asked to do several projects in which they investigate aspects of culture in a Spanish speaking area. This cultural information is shared orally and in writing to the other classmates. Students learn about other Spanish speaking cultures and traditions while at the same time practicing the skills needed to communicate in Spanish.