

**Ferndale High School  
Freshmen  
Course  
Descriptions  
2021-2022**



***GOLDEN EAGLES***

# ELECTIVE FRESHMEN COURSES

(arranged alphabetically)

## **ADVANCED DESIGN AND CONSTRUCTION**

GR: 9-12 REQ: CTE REPEATABLE: YES

PREREQUISITE: DESIGN AND CONSTRUCTION

SEM LONG IND443/IND444

This course is designed to reinforce skills learned during design and construction. Students will be given advanced challenges in problem-solving, and wood working design. Emphasis will be placed on skill refinement and individual systems, including composites manufacturing. Costs will vary depending on projects selected. This course may be repeated for credit. **There is a \$10 lab fee.**

## **AGRICULTURE SCIENCE 1**

GR: 9-12 REQ: LAB SCIENCE OR CTE. REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG VOC141

From apples to animals and field trips, we have it covered in this class! Would you enjoy taste testing apples? Have you ever wondered how you turn your love of plants and animals into your dream job? Want to take a try at livestock judging and animal ID? If you answered yes to any of the above, then take a journey through this dynamic & exploratory Agriculture Science I class...start by going on our annual field trip tour de Whatcom! Discover crops grown in Washington State, earn an appreciation for local agriculture and related jobs right here at home. Learn about FHS's amazing FFA program and career development events, mentor during project pals at local elementary schools, design Ag posters...and wrap up the semester with a handmade bow on your custom built evergreen wreath you'll be proud to take home.

## **AGRICULTURE SCIENCE 2**

GR: 9-12 REQ: LAB SC OR CTE REPEATABLE: NO

PREREQUISITE: AGRI-SCIENCE 1

SEM LONG VOC142

Do you love french-fries & homemade ice cream? Let's make our own! Puppies got your heart? Volunteer with Ferndale's Doggie Daycare at Ferndale High! Want to learn how to raise young animals. Enjoy a field trip to a local buffalo ranch as well as team up with the Alternative Humane Society on how to train and care for your kittens and puppies. Have a green thumb? Take a field trip to our local nursery and investigate soil. Plant seedlings in the FHS Greenhouse & take home your own beautiful hanging basket! #idipmyfrenchfriesinmyicecream #gotdirt #doggodaycare

## **ANIMAL SCIENCE**

GR: 9-12 REQ: CTE or Lab Sci REPEATABLE: NO

PREREQUISITE: AG-SCIENCE 1

SEM LONG VOC135

This class is for anyone who has an interest in animals and no experience is required. The course will focus on the scientific and hands-on principles of animal husbandry and will give you a basic knowledge of sound animal production practices and strategies. You will learn about animal behavior, training and handling. You will also learn about topics such as animal reproduction, artificial insemination, proper care and feeding, beef cattle management. You will have the opportunity to raise and train as well as fit and show an animal at the Lynden fair or choose another supervised agriculture Experience.

## **AQUACULTURE**

GR: 9-12 REQ: LAB SCIENCE OR CTE (ONE TIME) REPEATABLE: ONCE

PREREQUISITE: NONE

SEM LONG VOC100

In Aquaculture, learn how to raise fish through hands on, project based learning. Design and set up aquariums, hatch trout eggs and raise them to maturity. Design and set up your own micro farms with hydroponics and aquaponics. Learn about fish as a natural resource, sport fishing and building fishing rods. The on-campus warm and cold water tanks will be maintained by members of the class, so appropriate clothing is required. **A \$15 class fee is required.**

## **ART 1**

GR: 9-12 REQ: ART REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG ART 141

Students in this class will be prepared with the vocabulary and technical skills using the elements and principles of art to make connections in historical and cultural art contexts. With a focus on the areas of drawing, painting, and design; students will learn skills needed to communicate in and respond to the visual world while developing an awareness of creative expression and artistic style. **A \$15 lab fee is required.**

## ART 2

GR: 9-12 REQ: ART REPEATABLE: No  
SEM LONG ART142

PREREQUISITE: ART 1

This course is the second semester in the sequential art series. Art 2 helps each student broaden and refine their skills, while encouraging them to take artistic risks and improve their ability to communicate visually. Students will also initiate a greater emphasis on self-motivation and personal expression. Students will be expected to have 2 or more portfolio pieces by the end of the semester, and should be successful in Art 2 before moving on to Advanced Art Workshop. **A \$15 lab fee is required.**

## BEGINNING/INTERMEDIATE GUITAR

GR: 9-12 REQ: ART REPEATABLE: YES  
SEM LONG MUSGU1/MUSGU2

PREREQUISITE: NONE

This course is designed for beginners or students with some prior experience to learn the basics of guitar and music theory. This course will focus on reading both tablature and sheet music, learning how to count rhythms, and explore different genres and styles of music. Students will work both in a group setting as well as individual projects. There will be in-class student performance opportunities as well as outside guest performers. **Students must provide own ACOUSTIC guitar.**

## BUSINESS COMPUTING INTRODUCTION

GR: 9-12 REQ: CTE REPEATABLE: No  
SEM LONG BUS236

PREREQUISITE: NONE

Introduction to word processing, electronic spreadsheets, databases, presentation software, and e-communications using MS Office. Students can earn MS Office certifications, and these certifications can help you when you are looking for a job or continuing to advanced degrees in education.

## BUSINESS INTRODUCTION

GR: 9-12 REQ: CTE REPEATABLE: No  
SEM LONG BUS100

PREREQUISITE: NONE

Students are introduced to various economies, business management, entrepreneurship, marketing fundamentals, managing financial and technological resources, and the use of social media. Course activities incorporate 21st-century skills including thinking creatively, investigating, problem solving, reasoning, and collaborating. These skills are more important to students now than ever before. They not only provide a framework for successful learning in the classroom, but also ensure students can thrive in a world where change is constant and learning never stops.

## DESIGN AND CONSTRUCTION

GR: 9-12 REQ: CTE REPEATABLE: No  
SEM LONG IND441

PREREQUISITE: NONE

This course is designed to introduce students to problem-solving, creative design, and manufacturing processes. Units covered will include safety, tool and machine operation, design/carpentry/manufacturing processes, and the application of critical thinking and problem-solving skills. Emphasis will be placed on the construction of assigned and student selected projects/products. Costs will vary depending on design solutions selected. **There is an initial \$10 shop fee for supplies.**

## DRUMMING INTRO

GR: 9-12 REQ: ART REPEATABLE: No  
SEM LONG MUS113

PREREQUISITE: NONE

This course is for that person who has always want to play the drums but has never had the opportunity. This semester long class focuses on how to find a steady beat, the techniques of playing various drums and even some music reading. Before the semester is over each student will learn to play on a basic level the drum set, African drums, marching percussion, tambourines, shakers, cymbals and much more.

## ENGINEERING DESIGN 1

GR: 9-12 REQ: CTE REPEATABLE: No  
SEM LONG IND401

PREREQUISITE: NONE

This is an introductory course in computer aided design, engineering and problem solving. In this exciting, fast paced course students learn the basics of 3D modeling and product development. They will learn to apply the design process from problem statement to finished solution including building working prototypes with the 3D printer and CNC router. **There is a \$10.00 lab fee to help cover supplies.**

## ENGINEERING DESIGN 2

GR: 9-12 REQ: CTE OR ALT 3<sup>RD</sup> YR MATH REPEATABLE: NO

PREREQUISITE: ENGINEERING DESIGN 1

SEM LONG IND402

This is a continuation of Computer Aided Design I. In this section students learn advanced 3D modeling techniques including the basics of animation and vehicle design. Students will have the opportunity to build several working prototypes using the 3D printer and CNC router in order to test their design solutions. **There is a \$10.00 lab fee to help cover supplies.**

## EXPLORING COMPUTER SCIENCE

GR: 9-12 REQ: CTE REPEATABLE: YES

PREREQUISITE: NONE

SEM LONG BUS 216

A program that focuses on computer theory, computing problems and solutions, and the design of computer system and user interfaces from a scientific perspective. Includes instruction in the principals of computational science, computer development and programming, and applications to a variety of end-use situations.

## FRENCH 1

GR: 9-12 REQ: ELECTIVE REPEATABLE: NO

PREREQUISITE: "C" OR BETTER IN PREVIOUS SEMESTER ENGLISH CLASS

YR LONG WLA211 + WLA212

This is an introductory course for students interested in learning to read, write, pronounce and understand the French language. Emphasis is placed on learning the basic skills, and to begin developing a proficiency in the language. This is a rigorously academic course that builds upon the skills developed daily. Students who choose to study a language must realize that this is a college-prep course. Active participation in daily activities is required to succeed in class. French culture will be introduced throughout the course regarding music, food, crafts, and more. **A \$5 fee First semester is required for cultural activities.**

## HISTORY OF ROCK & ROLL

GR: 9-12 REQ: ART REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG MUS111

This course is designed to be an introduction and exploration of the history of Rock and Roll throughout each era of music. Genres explored will include blues, jazz, classic rock, alternative, country, hip-hop, pop, punk, and heavy metal, among others. Students will familiarize themselves with standout groups and music of each era, making the connection of how each have influenced and are connected to modern music of today. Activities will include listening, analyzing, watching videos, writing, class discussions, research, presentations, and possibly some playing of Rock Band!

## HORTICULTURE 1

GR: 9-12 REQ: CTE OR LAB SCI REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG VOC105

This course explores horticulture, the world of plants and flowers. Greenhouse time is included for growing and propagating selected as a semester project. Through this, you will have the opportunity to gain hands-on knowledge and greenhouse experience. Other areas of course work include exploring jobs in the field of horticulture, plant identification, plant anatomy, and plant physiology and propagation. Students will have the opportunity to develop a Supervised Agriculture Experience (S.A.E.) Project and participate in FFA leadership activities. This course is the pre-requisite for Horticulture 2 and students must earn a passing grade to advance.

## HORTICULTURE 2

GR: 9-12 REQ: CTE OR LAB SCI REPEATABLE: YES

PREREQUISITE: HORTICULTURE 1

SEM LONG VOC108

This course explores the greenhouse environment and how it relates to growing a wide array of annual flowers, vegetable starts, and hanging baskets. Students will gain firsthand greenhouse management experience by growing their own crops that will be sold at the spring FFA Plant Sale! It is offered second semester and is designed to explore more areas of horticulture for students who have successfully fulfilled the pre-requisite of Horticulture 1, and it applies knowledge and skills learned in Horticulture 1. Hands-on experience includes entomology, soils, fertilizing, floral designs, plant propagation, greenhouse management, gardening and vegetables, leadership/FFA, and other areas of interest. Students will have the opportunity to develop a Supervised Agriculture Experience (S.A.E.) Project.

## IT-COMPUTER SYSTEMS—CTE DUAL CREDIT

GR: 9-12 REQ: CTE REPEATABLE: YES

PREREQUISITE: B AVERAGE IN PREVIOUS SCIENCE CLASSES

SEM LONG TEC101/102

In this fast-paced class, learn from professional level tutorial programs, labs, and lots and lots of hands-on experiences, as you solve real district hardware/software issues. Student Help Desk & Technology grants you the opportunity to prepare yourself for both an entry level tech job and additional technical trainings and programs at the collegiate level. Assignments include the preparation of written and recorded tutorials demonstrating your skills, various projects on the FHS campus and campuses of other FSD schools, a professional portfolio/resume highlighting your experiences and knowledge. This course also provides valuable customer service and troubleshooting experience solving while you work an active tech support and Help Desk.

## JAZZ BAND

GR: 9-12 REQ: ART REPEATABLE: YES

PREREQUISITE: PLAYING EXPERIENCE IN PERFORMING ENSEMBLE OR PERMISSION

YR LONG MUS231/232

Jazz Band is a performing ensemble dedicated to playing and learning about pop, latin, rock and jazz styles. Along with playing standard repertoire, this group will also be introduced to the history of the genre. This is a supplementary course meaning it is required that all Jazz Band students be enrolled in another music class in the same semester. The Jazz Band will perform at least 3 concerts during the year along with select extra-curricular performances and festivals.

## LUMMI LANGUAGE 1

GR: 9-12 REQ: ELECTIVE REPEATABLE: NO

PREREQUISITE: NONE

YR LONG WLA001 + WLA002

This introductory course concentrates on basic vowel sounds of Xwlemi Chosen, the Lummi language. Emphasis is placed on learning the basic skills needed to read and write the language along with the development of conversation skills. Daily classroom exercises as well as attendance are required. Periodically, classes will include cultural consultants from the Lummi education system as well as honored Lummi elders.

## MARKETING INTRODUCTION

GR: 9-12 REQ: CTE REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG BUS200

This class will explore current market strategies, the marketing environment, and marketing ethics. Students will get to know how marketing concepts actually work in the business and global economies. Students will learn how real companies face marketing challenges, and they will have the opportunity to create and market their own business. This course is a requirement for Advanced Marketing/DECA.

## METALS TECHNOLOGY I – CTE Dual Credit

GR: 9-12 REQ: CTE. REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG VOC127

In this basic introduction to agricultural mechanics the following subject areas will be covered: arc welding, Oxy-Acetylene welding and cutting, sheet metal layout and fabrication, metal tempering, sheet metal soldering, spot welding, tool sharpening, residential electricity, and hydraulics. Emphasis will be placed on safe shop practices and developing independent thinking skills in preparation for Metals Tech II. Students may earn college credits through the **CTE Dual Credit** articulation through Bellingham Technical College by completing this course, Metals Technology II, Advanced Metals Technology, and the content competencies with a grade of B or better. **A \$20 lab fee is required.**

## METALS TECHNOLOGY II—CTE Dual Credit

GR: 9-12 REQ: CTE. REPEATABLE: NO

PREREQUISITE: METALS TECHNOLOGY I

SEM LONG VOC128

This will be a course that strengthens basic skills learned in Metals Technology I. Arc welding using E6010 and E7018 electrodes, Oxy-Acetylene and plasma cutting, lathe operation, tool sharpening, wire feed welding for steel and aluminum, and Tungsten inert gas welding revolving around steel and aluminum. Emphasis will be placed on safe shop practices and further development of independent and critical thinking skills. Students may earn college credit through Bellingham Technical College **CTE Dual Credit** by passing this course and Advanced Metals Technology with a “B” or better. **A \$20 lab fee is required.**

## PERCUSSION ENSEMBLE

GR: 9-12 REQ: ART OR 1 SEM CTE REPEATABLE: YES

PREREQUISITE: NONE

YR LONG MUS221+MUS222

This course is designed for students who wish to explore and expand their ability to create music with a variety of percussion equipment. Students will develop a vocabulary in the areas of snare, keyboard, percussion, timpani, auxiliary percussion and drum set. Music to be performed will come from a wide range of styles including Latin, rock, classical, marching and percussion. Students will be selected to play in the Wind Ensemble, Symphonic Band, Marching Band, Pep Band and Jazz Band based on ability. Public performances are required as scheduled. **Band Camp:** Is a non-graded activity that is highly recommended. The camp normally takes place the week prior to the start of school. **Marching Band:** Is a co-curricular activity that takes place during the fall. The marching band travels to four festivals throughout the Pacific Northwest. **Students are required to pay a travel fee.** Marching band is not a requirement for Symphonic Band and is not a graded activity.

## PHOTO DESIGN 1

GR: 9-12 REQ: ART OR CTE REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG ART131

This is an introductory course where you'll learn basic photography skills and techniques while also getting familiar with the basics of graphic design. You'll build a pinhole camera and shoot with it to make photos, learn to how to compose and shoot with digital cameras, and edit and manipulate your own photos in Photoshop. Using the design process you'll complete projects that show off your photos and your design skills, and you'll even learn to do some digital art! Photoshop, InDesign, and Illustrator are our computer tools in this course. For those who are interested, opportunities to enter various photo contests will be introduced throughout the semester. Cameras will be provided for use during class time. **A \$15 materials fee is required.**

## PHOTO DESIGN 2

GR: 9-12 REQ: ART OR CTE REPEATABLE: NO

PREREQUISITE: PHOTO DESIGN 1

SEM LONG ART 132

This course continues where Photo Design 1 left off. Photo and design projects will push you to demonstrate a higher level of technical and artistic understanding of photography and design than before. You'll expand your darkroom skills as you shoot and develop film and make enlargements. You'll continue with digital photography, learning to shoot with a dSLR, and will be introduced to Lightroom, which will be used alongside Photoshop, Illustrator, and InDesign. You'll learn new ways to edit and manipulate your photos, do trick photography, learn HDR, make infographics/digital art, create game boards, posters, booklets, and more. For those who are interested, opportunities to enter various local and state level photo contests will be introduced throughout the semester. Cameras will be provided for use during class time. **A \$15 materials fee is required.**

## SMALL ENGINE OVERHAUL

GR: 9-12 REQ: CTE. REPEATABLE: YES

PREREQUISITE: NONE

SEM LONG VOC145/VOC146

Students will be introduced to a 4-stroke small gasoline engine. They will gain basic theories of operation, tool identification and uses, measuring and determining engine wear, and basic engine diagnostics. Upon completion of their first engine, students are to bring in their own engines for the remainder of the semester. No automotive work will be allowed in this section, but a wide variety of four stroke engines will be studied, and many of the skills gained are very necessary to perform automotive work. A variety of support skills such as welding, shop safety, use of manuals and computers will be covered. Leadership opportunities through the FFA Chapter will be offered in this class.

## SPANISH 1

GR: 9-12 REQ: ELECTIVE REPEATABLE: NO

PREREQUISITE: "C" OR BETTER IN PREVIOUS SEMESTER ENGLISH CLASS

YR LONG WLA111+WLA112

This is an introductory course for students interested in learning to read, write, pronounce, understand and speak the Spanish language. Students who choose to study a language must realize that this is a college-prep course and good study habits are essential to developing a proficiency in the language. Active participation in daily activities is required to succeed in class. Hispanic and cultures will be introduced throughout the course regarding music, food, crafts, and more. **A \$5 fee First semester is required for cultural activities.**

## SPANISH 2

GR: 9-12 REQ: ELECTIVE REPEATABLE: NO

PREREQUISITE: SUCCESS IN SPANISH 1, C OR BETTER GRADE RECOMMENDED YR LONG WLA121+WLA122

Second year Spanish continues to develop language learned during Spanish 1. Emphasis is on all aspects of language acquisition, including listening, speaking, reading, and writing. It is recommended that students have earned a "C" or better in Spanish 1 prior to enrolling in Spanish 2. **A \$5 fee First semester is required for cultural activities.**

## SPORTS MEDICINE

GR: 9-12 REQ: CTE REPEATABLE: NO

PREREQUISITE: NONE

YR LONG VOC311 + VOC312

Students will have the opportunity to explore the Sports Medicine field and related allied health professions in a year-long course that will share time in both the classroom and the athletic training room. Students will learn about emergency care, basic anatomy and physiology, prevention, care and rehabilitation of injuries, sports nutrition, strength and conditioning, and health-related issues. The major emphasis of the class will be to apply the skills in clinical situations and to help the student become more aware of the various allied health professions. **Beginning Sports Medicine students are required to complete 60 hours per semester in the training room after school and/or during athletic events, along with 15 hours of research/job shadow time. A \$10 athletic fee is required for First Aid/CPR certification.**

## SYMPHONIC BAND

GR: 9-12 REQ: ART REPEATABLE: YES

PREREQUISITE: NONE

YR LONG – MUS211 + MUS212

This course of study prepares students for membership in the Wind Ensemble through intensive study, skill development, practice and testing to improve musicianship. The Symphonic Band performs as an independent unit in concerts throughout the year. Performances and extra rehearsals are occasionally required after school hours. Private lessons are strongly encouraged. **Band Camp:** Is a non-graded activity that is highly recommended. The camp normally takes place the week prior to the start of school. **Marching Band:** Is a co-curricular activity that takes place during the fall. The marching band travels to four festivals throughout the Pacific Northwest. **Students are required to pay a travel fee.** Marching band is not a requirement for Symphonic Band and is not a graded activity.

## SYMPHONY ORCHESTRA

GR: 9-12 REQ: ART OR 1 SEM CTE REPEATABLE: YES

PREREQUISITE: 2 OR MORE YEARS PLAYING EXPERIENCE OR PERMISSION

YR LONG – MUS321+MUS322

Symphony Orchestra students will focus on both the fundamentals and advancing levels of string technique through a wide variety of orchestral music. This class will collaborate with the Advanced Chamber Orchestra to perform combined orchestra music. Study will also include small chamber groups and students will be strongly encouraged to participate in solo and ensemble festival. Students will be expected to fulfill minimum practice requirements outside of class as assessed by playing tests. Participation in all performances and festivals is required. Students may audition for Advanced Chamber Orchestra in March for the following School year after completing one year of Symphony Orchestra.

## TALONS – TENOR/BASS CHOIR

GR: 9-12 REQ: ART REPEATABLE: YES

PREREQUISITE: INTEREST IN SINGING AND NATURAL TENOR/BASS VOCAL RANGE

YR LONG MUS423 + MUS424

The Talons choir is for Tenor/Baritone/Bass range vocal students of all ability levels, from beginner to advanced. Prior musical experience is welcome, but not required. This course will focus on developing the student's natural Tenor/Bass singing voice, and on building music reading ability, ensemble singing skills, and team building. The students enrolled in this choir understand that all performances are required. Performance outfits are required. No audition is required. **Performance fees apply.**

## THEATRE ARTS

GR: 9-12 REQ: ART REPEATABLE: YES

PREREQUISITE: NONE

SEM LONG ART173/ART174

Theatre Arts 1 is designed for students who want to learn about the basics of theater to become a better performer and public speaker. They will be required to participate in a variety of activities in class as well as attend and review a live performance outside of class. Students will study improvisational techniques to improve their thinking skills, stage skills and collaboration skills. The culminating activity for this semester long elective is participation in the production of small group dramatic scenes. Theatre education is important for all student and has the ability to reach and inspire creativity and confidence in the lives of students in any endeavor.

## **TREBLE CHOIR—SOPRANO/ALTO CHOIR**

GR: 9-12 REQ: ART OR 1 SEM CTE REPEATABLE: YES

PREREQUISITE: INTEREST IN SINGING AND NATURAL SOPRANO/ALTO VOCAL RANGE YR LONG –MUS421 + MUS 422

Treble Choir is for Soprano/Alto range vocal students of all abilities, from beginner to advanced. Prior musical experience is welcome, but not required. This course will focus on developing the student's natural Soprano/Alto singing voice, and on building music reading ability, ensemble singing skills, and team building. The students enrolled in this choir understand that all performances are required. No audition is required. Performance apparel is a FHS formal black dress. **Performance fees apply.**

## **VIDEO 1**

GR: 9-12 REQ: ART OR CTE REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG ART171

Start your Hollywood movie-making career here! Video 1 offers skills in basic film production, such as composing great shots, using natural and artificial light, getting clear audio, editing and more. You will be given hi-def camcorders, professional mics, a variety of stabilizers like sliders and Steadicams, etc. to make fun videos. You can even check out gear after school and on weekends to produce your potentially award-winning film. A \$15 materials fee is required.

## **WEB DESIGN 1A –CTE Dual Credit**

GR: 9-12 REQ: CTE REPEATABLE: NO

PREREQUISITE: NONE

SEM LONG BUS237

Learn the essential lingo of web design to build a working multi-page website. Apply your newfound knowledge of color theory, page layout, typography (a fancy word for fonts), web graphics and more to wow your web surfing sidekicks. Sure, you'll have to actually learn to write code, but with some hard work, you'll be a code ninja by the end of the semester.

## **WEB DESIGN 1B –CTE Dual Credit**

R: 9-12 REQ: CTE REPEATABLE: NO

PREREQUISITE: WEB DESIGN 1A OR PERMISSION

SEM LONG BUS238

You will take what you learned in Web 1a to the next level. Working mostly at your own pace, you will explore advance techniques, such a customizing websites for phones, and tablets. Your previous experience and innate curiosity will help you as you design a site for a local business, non-profit or other client. You might integrate custom features ranging from motion graphics to widgets, using advanced coding languages ranging from Javascript to JQuery.

## **YEARBOOK (AQUILA)**

GR: 9-12 REQ: CTE REPEATABLE: YES

PREREQUISITE: PERMISSION\*

YR LONG BUS263+BUS264

If you have an eye for design or are comfortable with a camera, you might qualify for a position in yearbook. Every year, students aim to publish a professional quality book, and will produce magazine-worthy pages with savvy copy and hip headlines. Get great interviews and tell compelling stories. If you stay with yearbook, you will be in line for a leadership position, such as executive, section or photo editor or, if you like making money, you might want to be a business manager. If you thrive on excitement in a creative environment, consider Aquila. (\*Freshmen who took yearbook in middle school.) A \$15 materials fee is required.

# **REQUIRED FRESHMEN COURSES**

(Courses Arranged by subject)

## **English**

### **FRESHMAN ENGLISH**

GR: 9-12 REQ: FRESH ENGLISH REPEATABLE: NO

PREREQUISITE: NONE

YR LONG ENG 211+ENG212

This is a required English course for freshmen. First semester includes literature, speech, and writing combined in these three units: short story, non-fiction and novels. Students will study mass media techniques and will write multi paragraph papers analyzing their reading during second semester. They will continue to develop their writing skills while studying drama and a novel.

### **FRESHMAN ENGLISH – HONORS**

GR: 9 REQ: FRESH ENGLISH REPEATABLE: NO

PREREQUISITE: NONE

YR LONG ENG217 +ENG218

Units include literary analysis, research, poetry, novel, drama, and independent exploration of literature as time permits. Students are expected to read independently outside of class. Writing, speaking, and self-assessment are also important components of the class. Students are expected to maintain A/B caliber work, and complete a variety of tasks ranging from daily work to larger projects. Expect daily homework.



**MATH**

**ALGEBRA 1**

**EXTENDED ALGEBRA A,B,C,D**

GR: 9 & 10 REQ: ALGEBRA 1 + ELECTIVE REPEATABLE: NO  
2 YR PROGRAM--PLACEMENT

PREREQUISITE: PLACEMENT BY TEST SCORES

**EXTENDED ALGEBRA A/B GR 9**—Students review Pre-algebra topics and study the first semester of Algebra 1 including writing and solving equations, graphing lines, area, perimeter, and the distributive property. Some topics from Geometry and Probability are also introduced. Students focus on effective study habits and practices in mathematics with an emphasis on laying the groundwork for success in future math courses.

**EXTENDED ALGEBRA C/D GR 10**—Students review Algebra 1a topics and study the second semester of Algebra 1 including systems of linear equations, general forms of linear functions, quadratics, factoring, and graphing. Some topics from Geometry and Probability are also introduced. Students focus on effective study habits and practices in mathematics with an emphasis on laying the groundwork for success in future math courses.

**BLOCK ALGEBRA + SBA PREP**

GR: 9 REQ: ALG 1 +ELECTIVE REPEATABLE: NO

PREREQUISITE: PLACEMENT BY TEST SCORES

YR LONG PLACEMENT

This course is taught daily, alternating days with Block Algebra 1 and SBAC Prep. This gives the students two days to learn the content that is typically taught in one day. Students will also focus on foundational skills and on effective study habits and practices in mathematics. **A scientific calculator is required (example TI-30).**

**ALGEBRA 1**

GR: 9-11 REQ: ALG 1 REPEATABLE: NO

PREREQUISITE: NONE

YR LONG--PLACEMENT

During the first semester of this course, the student will learn to use and understand the language and methods of algebra that are essential in learning all branches of mathematics, including the idea of a function. The emphasis will be on problem-solving with linear models in particular, using equations, graphing and inequalities. During the second semester, students will explore similar ideas under nonlinear models. **A scientific calculator is required (example TI-30).**

**GEOMETRY**

**BLOCK GEOMETRY + SBA PREP**

GR: 10-11 REQ: GEOMETRY + ELECTIVE REPEATABLE: NO

PREREQUISITE: EXT. ALG C/D OR BLK ALG

YR LONG PLACEMENT

This course is taught daily, alternating days with Block Geometry and SBA Prep. This gives the students two days to learn the content that is typically taught in one day. Students will also focus on foundational skills and on effective study habits and practices in mathematics. **A scientific calculator is required (example TI-30).**

**GEOMETRY**

GR: 9-12 REQ: GEOMETRY REPEATABLE: NO

PREREQUISITE: ALGEBRA 1

YR LONG PLACEMENT

This course builds on students' intuitive understanding of shapes and angles towards the discovery and investigation of new and complex combinations and characteristics thereof. Logic and justification of reasoning based on previously determined facts are a significant component of the course. Problems in context are used to build conceptual understanding and to practice concepts learned. **A scientific calculator is required (Example TI-30).**

**ALGEBRA 2**—MAY be added by placement based on successfully completing geometry and algebra 1 in middle school

## **PE & Health**

### **HEALTH**

PREREQUISITE: NONE

GR: 9-12 REQ: HEALTH REPEATABLE: NO  
SEM LONG PLACEMENT

Do you like yourself? Can you handle stress? Do you know the characteristics of good health? Would you be able to perform CPR to save a heart attack victim? This course explores a variety of topics such as drugs, nutrition, family living, and disease that will help you to make responsible decisions related to your health. One semester of Health is required of Ferndale High School students. The purpose of this course is to provide students an opportunity to make responsible decisions related to their physical, mental, and social well-being.

### **PHYSICAL EDUCATION**

PREREQUISITE: NONE

GR: 9-12 REQ: PE REPEATABLE: YES  
SEMESTER LONG—SEE CODES BY SPECIFIC CONTENT

A wide selection of activities will be offered throughout the school year. Specific eighteen week units will be presented based on facility and teacher availability, and may include aerobics, archery, badminton, basketball, biking, bowling, flag football, floor hockey, golf, pickle ball, softball, tennis, volleyball, weight training, YMCA, or yoga. Locks are checked out for all students in PE. **Failure to return a PE lock will result in a fine of \$10.**

### **FITNESS/PILATES—PHY131/PHY132**

The goal of this class is to explore and encourage lifelong fitness through a variety of activities that will promote total body conditioning. Students will improve individual fitness levels through a mixture of activities that include Pilates, weight lifting, jogging, walking, stretching and other fitness activities.

### **FITNESS/WEIGHT TRAINING—PHY123/PHY124**

This class emphasizes total conditioning achieved through a mixture of strength, cardiovascular endurance, and flexibility. The course incorporates weight training, running, walking, fitness activities, stretching, and overall body conditioning.

### **RACQUET SPORTS—PHY263/PHY264**

This class is designed for those students who enjoy individual sports or racquet sports. This class consists of tennis in the Fall/Spring and badminton/pickle ball in the winter. A 20-30 minute fitness component is included in all activity/individual sports classes.

### **RUNNING/WEIGHT TRAINING—PHY125/PHY126**

This course is designed to improve fitness levels through running and participating in various weight lifting routines. The goals of this course are to encourage running as an enjoyable, lifelong fitness activity, as well as promote total body conditioning through activities that improve cardiovascular endurance and total body strength.

### **TEAM SPORTS—PHY261/PHY262**

This class is designed for those students who enjoy team games. The games will be based on facilities, weather, and teacher availability. Activities may include: Flag Football, Soccer, Basketball, Volleyball, Floor Hockey, Softball, Ultimate Frisbee, and Team Handball. A 20-30 minute fitness component is included in all activity/team sport classes.

### **WEIGHT TRAINING—PHY127/PHY128**

This class emphasizes developing explosive power achieved through a mixture of Olympic lifts, plyometric, speed/agility work, running, core development, flexibility, and overall body conditioning.

### **YOGA/WALKING—PHY121/PHY122**

This course is designed to improve individual fitness levels through a variety of activities designed to encourage healthy lifelong fitness habits. Students will engage in a variety of activities, with an emphasis on walking and yoga routines, to improve cardiovascular endurance, flexibility, core and total body strength, and body composition. Students must come prepared for both indoor and outdoor activities on a daily basis and have appropriate attire for walking in various weather conditions.

## **SCIENCE**

### **BIOLOGY**

GR: 9 REQ: LAB SCIENCE REPEATABLE: NO

PREREQUISITE: NONE

YR LONG Sci241+Sci242

Biology content is based upon the life science standards of the Next Generation Science Standards (NGSS) integrated with earth science. Biology is a laboratory science course where students actively engage in science and engineering practices to study: the structures and processes of molecules and organisms; the interactions, energy, and dynamics of ecosystems; heredity and biological evolution. Full participation in this course is essential to a student's preparation for the Washington Comprehensive Assessment of Science taken in 11<sup>th</sup> grade.

### **ENVIRONMENTAL SCIENCE--AP**

GR: 9-12 REQ: LAB SCIENCE REPEATABLE: NO

PREREQUISITE: 9<sup>TH</sup> GR B OR BETTER IN MS ACCEL SCI + RECOMMENDED IN ALG 1 OR HIGH ER MATH

YR LONG Sci279+Sci280

AP Environmental Science content is based upon the life science standards of the Next Generation Science Standards (NGSS) integrated with earth and environmental science. AP Environmental Science is a laboratory science course where students actively engage in science and engineering practices to study: scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Full participation in this course is essential to a student's preparation for the Washington Comprehensive Assessment of Science taken in 11th grade. This course may be taken concurrently with all other science courses at FHS.

## **SOCIAL STUDIES**

### **WORLD HISTORY**

Gr: 9-12 REQ: WORLD HIST REPEATABLE: NO

PREREQUISITE: NONE

YR LONG HIS677+HIS678

World History - the story of Human Invention and Discovery is a two-semester course for ninth graders. This course will explore world history through a conceptual approach. Students will learn about historical patterns and connections focusing on Europe, Asia, Africa, the Far East, Pacific Peoples, and other world cultures. Students will study the geography and movement of peoples from the European Renaissance to the present day struggles for democracy.

### **WORLD HISTORY HONORS**

Gr: 9 REQ: WORLD HIST REPEATABLE: NO

PREREQUISITE: A OR B RECOMMENDED IN MS SOC STUDIES

YR LONG HIS627+HIS628

The story of Human Invention and Discovery is a two-semester course for ninth graders. This course will explore world history through a conceptual approach. Students will learn about historical patterns and connections focusing on Europe, Asia, Africa, the Far East, Pacific Peoples, and other world cultures. Students will study the geography and movement of peoples from the European Renaissance to the present day struggles for democracy.

Students should have good reading and writing skills since the depth of knowledge, use of primary documents, and critical analysis of readings will be at a much higher level than the usual World History course. Students are expected to maintain A/B caliber work.