



Ferndale High School
Course Catalog
Incoming 9th Grade Edition
2026-2027

Ferndale High School

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Ferndale High School

Graduation Requirements



To earn a high school diploma, a student must:

- Complete a High School and Beyond Plan (HSBP)
- Complete a Graduation Pathway
- Earn high school credits
- Complete Pacific Northwest History (middle school course)

Each course at Ferndale High School is worth .5 credit. Students will take eight classes plus advisory each semester for four years, for a total possibility of 34.0 credits. With 30.0 credits required for graduation, a student could lose credit in up to four elective classes during high school, and still meet the credit requirement for graduation. Should a student fail a specific graduation requirement, the class will need to be made up either through repeating it or taking it through credit retrieval or some other approved remedial program.

The following table highlights what credits are required to graduate from Ferndale High School:

| Course | Graduation Requirements |
|--------------------|-------------------------|
| English | 4 |
| Social Studies | 3.5 |
| Math | 3 |
| Science | 3 (2 Lab) |
| Physical Education | 2 |
| CTE | 1.5 |
| Fine Arts | 1 |
| Health | 0.5 |
| Electives | 11.5 |
| Total | 30 |

The following table highlights what is required to graduate from Ferndale High School and complete the minimum College Academic Distribution Requirements (CADRs) to be eligible to be accepted to a 4-year university:

| Course | Graduation Requirements + College Academic Distribution Requirements |
|--------------------|--|
| English | 4 |
| Social Studies | 3.5 |
| Math | 3 (including Algebra 2) |
| Science | 3 (2 Lab) |
| Physical Education | 2 |
| World Language | 2 |
| CTE | 1.5 |
| Fine Arts | 1 |
| Health | 0.5 |
| Electives | 9.5 |
| Total | 30 |

Above are the minimum CADRs. The FHS Counseling department recommends 4 years of both mathematics and science to best prepare students for four-year universities.

Ferndale High School

Graduation Pathways & HSBP



CTE Sequence Graduation Pathway

- Complete 2.0 or more CTE credits in the same CTE program area¹ that either include a dual credit course, or lead to an industry recognized credential
- Complete a Core Plus program (Manufacturing, Construction and Maritime available)

ASVAB Graduation Pathway

- AFQT Section Score = 31 (check State Board of Education website by 9/1 annually)

Complete Math and English Language Arts (ELA) Graduation Pathway

- Can use any combination of the ELA and math options listed in this section
 - College Admissions Exams (ACT/SAT)

| Exam | ELA | Math |
|-----------------------|-----|------|
| ACT | N/A | 16 |
| ACT with Writing | 14 | 16 |
| SAT or SAT with Essay | 410 | 430 |
 - Dual credit courses (1.0 credit total each for math and/or ELA)
 - AP/IB/Cambridge: Earn a C+ or higher in state approved course (each term)
 - CTE Dual Credit (must earn at least high school credit) 1
 - College in the High School or Running Start (local approval of course options)
 - Dual credit exams (for applicable state-approved courses in math and/or ELA)
 - Advanced Placement = 3 or higher exam score
 - Cambridge International = E or higher exam score
 - International Baccalaureate = 4 or higher exam score
 - State-level assessments (SBA and WA-AIM)
 - SBA: ELA = 2548; math = 2595
 - WA-AIM: ELA = 104; math = 103
 - Transition courses (1.0 credit total for math and/or ELA course over one school year)
 - Bridge to College courses (approved by state)
 - Locally articulation agreements between districts and sponsoring colleges

High School & Beyond Plan

The High School and Beyond Plan is a state graduation requirement. Each student must have a High School and Beyond Plan (HSBP) to guide the student's high school experience and prepare the student for postsecondary education or training and career (ESHB 2224, Chapter 31, Laws of 2017). Students start their plan in seventh or eighth grade and then continue to revise them throughout high school to accommodate changing interests or educational and career goals.

Ferndale High School

CTE Sequence & Pathways



A coordinated, non-duplicative progression of courses that align secondary education with post-secondary education to adequately prepare students to enter into postsecondary education, an apprenticeship, and/or employment. Students must complete 2 credits in the same pathway. Worksite Learning & Special Projects can be applied to any of the sequences below. Updated February 2026. Note: * denotes CTE Dual Credit and ^ denotes state approved IRC. School year denotes if/when the course became CTE, or when */^ went into effect.

| Agricultural Sciences |
|------------------------------------|
| Agricultural Leadership |
| Agricultural Science 1^ (S2 25-26) |
| Agricultural Science 2 |
| Animal Science |
| AP Environmental Science* (23-24) |
| Aquaculture & Fisheries 1^ (25-26) |
| Aquaculture & Fisheries 2^ (25-26) |
| Floral Design^ (S2 25-26) |
| Forestry Management (23-24) |
| Horticulture 1^ (S2 25-26) |
| Horticulture 2 |
| Intro to the Trades |
| Landscaping |
| Metals Technology 1* |
| Metals Technology 2* |
| Metals Technology, Advanced* |
| Oceanography |
| Small Engines Overhaul |
| Veterinary Science* |
| Wildlife Management* (23-24) |

| Business & Marketing |
|--|
| Business 101* |
| Business Communications* |
| Business Computing^ |
| Business Law |
| Business Math* |
| Exploring Computer Science |
| Financial Algebra |
| Marketing |
| Marketing, Advanced |
| Intro to the World of Business^ (S2 25-26) |
| Personal Finance* |
| Retail Management |
| Social Media Marketing* |
| Sports Marketing |
| Web Design* |
| Yearbook* |

| Skilled & Technical Science |
|--|
| Architectural Design^ (S2 25-26) |
| Architectural Design, Advanced^ (S2 25-26) |
| Art 1 (24-25) ^ (S2 25-26) |
| Art 2 (24-25) |
| Art 3 (25-26) |
| Carpentry & Construction^ (S2 25-26) |
| Ceramics 1 (24-25) ^ (S2 25-26) |
| Ceramics 2 (24-25) |
| Cybersecurity^ (S2 25-26) |
| Graphic Design 1^ |
| Graphic Design 2*^ |
| Information Technology* |
| Information Technology, Advanced* |
| Music Creation Lab (25-26) |
| Scoreboard Media |
| Theater Technology |
| Video Game Design ^ (S2 25-26) |
| 2D Game Design 2^ (S2 25-26) |
| 3D Game Design 3^ (S2 25-26) |
| Video Productions^ |

| Health Sciences |
|---|
| Basic Anatomy in Healthcare^ (S2 25-26) |
| Healthcare Careers & Emergency Skills |
| Human Anatomy* |
| Principles of Biomedical Science |
| Sports Medicine^ |
| Sports Medicine, Advanced^ |

| Family & Consumer Science |
|-----------------------------------|
| AP Psychology/Psych. 101* (24-25) |
| Baking & Pastry^ |
| Careers in Education 1* |
| Careers in Education 2* |
| Culinary 1*^ |
| Culinary 2*^ |
| Health (22-23) ^ (S2 25-26) |
| International Foods^ |
| Latinos in Action |
| Leadership 1 (23-24) ^ (S2 25-26) |
| Leadership 2 (23-24) ^ (S2 25-26) |
| Living on your Own^ (S2 25-26) |

| STEM |
|-----------------------------------|
| Design & Construction^ (S2 25-26) |
| Design & Construction, Advanced |
| Engineering Design 1^ (S2 25-26) |
| Engineering Design 2 |
| Engineering Design, Advanced |
| Geometry STEM |
| Power & Energy* |
| Robotics^ (S2 25-26) |
| Robotics 2 |

Ferndale High School



Dual Credit Opportunities

Ferndale High School has several programs in which students may receive dual credit for class at both the high school and college level. They include AP(Advanced Placement), College in the High School programs with UW, WWU, CWU, CTE Dual Credit, and Running Start. Courses taught at FHS with dual credit options are marked in the course description portion of this catalog.

ADVANCED PLACEMENT (AP)

Advanced Placement courses enable students to complete college level studies while in high school and obtain college placement credit on the basis of their performance on rigorous AP examinations taken in May. Ferndale High School currently offers several courses that are designated AP with the AP symbol. Some are offered on alternating years. Courses with the AP designation follow a prescribed curriculum that prepares students for a specific AP examination. Though students are encouraged to take the AP exam, students are not required to take it. Please note that the curriculum in these courses are rigorous and are taught at the college level. Because of this, the College Board recommends that students do not take more than three AP classes at one time as the workload in those courses is time consuming and difficult. Please see your counselor for more details if you wish to take more than three AP courses at one time. Listed below are the AP courses and the specific AP examination. AP courses are offered based on student demand and enrollment numbers. All students may sign up as part of the regular scheduling process for any AP course in which they meet the prerequisites and grade level requirements. Please be aware that all students who sign up for an AP class will be required to sign a statement of understanding which outlines the requirements for AP courses and deadlines for withdrawing from an AP course.

| AP Course | AP Test |
|---------------------------------------|----------------------------------|
| Biology (AP) | Biology |
| Calculus AB (AP) | Calculus AB |
| Calculus BC (AP) | Calculus BC |
| English Language & Composition (AP) | English Language & Composition |
| English Literature & Composition (AP) | English Literature & Composition |
| Environmental Science (AP) | Environmental Science |
| Physics 1 (AP) | Physics 1 |
| Physics 2 (AP) | Physics 2 |
| Psychology (AP) | Psychology |
| Statistics (AP) | Statistics |
| U.S. Government & Politics (AP) | U.S. Government & Politics |

Ferndale High School

Dual Credit Opportunities



COLLEGE IN THE HIGH SCHOOL

FHS is currently offering college in the high school course through University of Washington, Central Washington University, and Western Washington University. These classes earn college credit but are taught on our campus.

| Course | University | High School Credit | College Credit |
|---|------------|--------------------|----------------|
| Addiction in the Brain 101 | UW | 1.0 | 5.0 |
| Calculus 172 | CWU | 1.0 | 5.0 |
| Calculus 173 | CWU | 1.0 | 5.0 |
| Chemistry 101 | UW | 1.0 | 5.0 |
| English Literature and Composition – AP/WWU English 238:Society Through It's Literature | WWU | 1.0 | 5.0 |
| Environmental Science 101 | WWU | 1.0 | 5.0 |
| Anatomy and Survey of Physiology 118/119 | UW | 1.2 | 7.0 |
| Math in the Modern World 101 | CWU | 1.0 | 5.0 |
| Physics 111 | CWU | 1.0 | 5.0 |
| Physics 112 | CWU | 1.0 | 5.0 |
| Psychology 101 | UW | 1.0 | 5.0 |
| Precalculus 153 | CWU | 1.0 | 5.0 |
| Precalculus 154 | CWU | 1.0 | 5.0 |
| Spanish 103 | UW | 1.0 | 5.0 |
| Spanish 201 | UW | 1.0 | 5.0 |
| Wildlife & the Modern World 150 | UW | 1.0 | 5.0 |

CTE DUAL CREDIT

CTE Dual Credit is a college preparatory program that offers high school students an opportunity to earn college credit for approved high school courses. Students enrolled in these courses may be eligible to receive college credit through articulation agreements with the Whatcom Community and Bellingham Technical Colleges. Students who complete approved CTE Dual Credit courses with a grade of "B" or better may request college credit.

| College | Credit Amount | High School Course |
|---------|---------------|-------------------------|
| WCC | 2 | Medical Terminology |
| WCC | 5 | Web Design |
| BTC | 4 | Metals Technology I |
| BTC | 4 | Metals Technology II |
| BTC | 3 | Power & Energy A |
| BTC | 3 | Power & Energy B |
| BTC/WCC | 3 | Information Technology |
| BTC/WCC | 5 | Information Technology |
| BTC/WCC | 5 | Information Technology |
| BTC | 3 | Culinary 1 |
| BTC | 3 | Culinary 2 |
| WCC | 5 | Careers in Education |
| WCC | 5 | Business 101 |
| BTC | 5 | Business Communications |
| WCC/BTC | 5 | Business Math |

English Courses



ENG101 + ENG102

English 101 & 102

This is a required year-long English course. Course includes literature, 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.

GR: 9-12
REQ: English 9
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Social Studies Courses



HIS101 + HIS 102

World History

World History is a two-semester course for ninth graders. Students will learn about historical patterns and connections spanning from the 16th to the 20th century. Students will study the geography and movement of peoples from the European Renaissance to the present-day struggles for democracy.

GR: 9-12
REQ: World History
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Science Courses



SCI101 + SCI102

Biology



This is a preparatory course for the WCAS state science assessment to be taken during the Junior year. 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 11th grade.

GR: 9
REQ: Lab Science
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Environmental Science – AP or WWUHS

AP Environmental Science is the advanced science option for 9th grade students 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.

SCI103 + SCI104

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: 9TH Grade: B or better in Middle School Science + Algebra 1 recommended
LENGTH: Year-long

Mathematics Courses



Algebra 1

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 tables. During the second semester, students will explore similar ideas under nonlinear models and extend to systems and inequalities. A scientific calculator is required (example TI-30).

GR: 9-11
REQ: Algebra 1
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

MAT101 + MAT102

Extended Algebra 1 A & B

Grade 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.

GR: 9
REQ: Algebra 1/Elective
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

MAT115 + MAT116

Extended Algebra 1 C & D

Grade 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.

GR: 10
REQ: Algebra 1/Elective
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

MAT117 + MAT118

Geometry

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).

GR: 9-12
REQ: Geometry
REPEATABLE: No
PREREQUISITE: Algebra 1
LENGTH: Year-long

MAT201 + MAT202

Geometry STEM

Geometry is used to describe, design, and build things. In Geometry STEM you will learn the proper terminology to accurately describe objects in both the real world and in the idealized world. You will precisely model these objects in Rhinoceros and Grasshopper (CAD software). You will be given design challenges that will require you to build what you design. This class will follow the statewide framework and will include the following seven units: Measurement/Precision, Two Dimensional Shapes, Three Dimensional Figures, Transformations, Trigonometry, Logic, and Applications. This class will require the same amount of time and effort as a standard geometry class, but it will be taught through the design process. In addition, this class will keep your algebra skills fresh enough so that you can continue in Algebra II the following year.

GR: 9-12
REQ: Geometry or CTE
REPEATABLE: No
PREREQUISITE: Algebra 1
LENGTH: Year-long

STEM23 + STEM24

World Languages Courses

(in alphabetical order)



French 1

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 and good study habits are essential to developing a proficiency in the language. Students must be willing to readily engage and talk with their classmates daily. Oral participation is required, and students need to try their best to practice French in order to truly acquire the language. French culture will be introduced throughout the course regarding music, food, crafts, and more.

WLA107 + WLA108

GR: 9-12
REQ: Elective
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Lummi Language 1

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 honor Lummi elders.

WLA101 + WLA102

GR: 9-12
REQ: Elective
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Spanish 1

This is an introductory course for students interested in learning to read, write, pronounce, understand, and speak Spanish. 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. Students must be willing to readily engage and talk with their classmates daily. Oral participation is required, and students need to try their best to practice Spanish in order to truly acquire the language. We will also explore the music, food, crafts, geography and culture of the Hispanic world.

WLA103 + WLA104

GR: 9-12
REQ: Elective
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Spanish 2

Second year Spanish continues to develop language learned in Spanish 1. Emphasis is on all aspects of language acquisition, including listening, speaking, reading, and writing. Active oral participation is required, and study habits are essential. Teachers will steadily increase their use of Spanish and students must follow. All communication is in Spanish by the end of the year.

WLA203 + WLA204

GR: 9-12
REQ: Elective
REPEATABLE: No
PREREQUISITE: C or better in Spanish 1 (recommended)
LENGTH: Year-long

Spanish for Heritage Speakers

This course is designed for students who have been raised at home where Spanish is spoken, speak or at least understand Spanish, and who are to some degree bilingual in Spanish and in English. Students in the course improve their reading and writing skills in Spanish. The class reads short stories and learns basic grammar, the rules of accentuation, and spelling. Students create interesting projects and presentations about Spanish speaking countries and cultures.

WLA105 + WLA106

GR: 9-12
REQ: Elective
REPEATABLE: Yes
PREREQUISITE: Native Spanish Speaker
LENGTH: Year-long

Physical Education Courses



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.

Unified Physical Education

Adapted Physical Education is a developmentally appropriate class designed to support students of all abilities in building confidence, strength, and coordination through movement. This class offers engaging activities and games tailored to meet individual motor needs while fostering a sense of belonging and achievement. Adapted PE promotes inclusivity, encourages lifelong physical activity, and empowers all students to lead active and healthy lives. This course is open to anyone interested in participating in an inclusive and supportive environment, similar to Unified Sports. Peer mentors are also welcome to join, providing leadership and encouragement to their classmates.

PHY105 or PHY106

GR: 9-12
REQ: PE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Lifetime Activities

This class is designed for those students that enjoy both team games as well as individual sports. The goal of this course is to promote physical fitness through a variety of fitness activities and sports units. The activities and games will be based on facilities, weather, and teacher availability. Activities and games may include: Flag Football, Soccer, Basketball, Volleyball, Floor Hockey, Softball, Ultimate Frisbee, Team Handball, Tennis, Badminton, and Pickle Ball. Sport education will be discussed and reviewed in detail. A 20-30 minutes fitness component is included in all activity/individual sports classes.

PHY101 or PHY102

GR: 9-12
REQ: PE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Running & Weight Training

This course is designed to improve fitness levels through running and participating in various weightlifting 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.

PHY125 or PHY126

GR: 9-12
REQ: PE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Walking for Fitness

Walking is the number one fitness activity of American adults. If this interests you, then Walking for Fitness is the class for you. This class will use the school campus, community sidewalks, track, etc. to teach you everything you need to know to adopt a fitness walking lifestyle into your life. You will gain knowledge of heart rate and understanding of physical training through walking. Students will also improve in flexibility and muscular strength with stretching and core exercises weekly. Students will be required to walk outside most days (regardless of the weather) and will be required to have a signed off campus waiver.

PHY103 or PHY104

GR: 9-12
REQ: PE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Weights & Sports

This course is designed to improve fitness levels through sports/activities and participating in various weightlifting routines. The goals of this course give students access to several different sports and activities and the weight room, with the goal of improving cardiovascular endurance and total body strength.

PHY123 or PHY124

GR: 9-12
REQ: PE
REPEATABLE: Yes
PREREQUISITE: None

Physical Education Courses

(continued)



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.

Weight Training for Women

This semester long course is intended to be a welcoming environment for females to build muscle strength, practice targeted exercises and participate in a variety of sports and activities. In this class, there will be a combination of weight training, games/sports, stretching and fitness activities designed to improve overall fitness.

PHY127 or PHY128

GR: 9-12

REQ: PE

REPEATABLE: Yes

PREREQUISITE: None

LENGTH: Semester-long

Yoga

This course presents yoga movements for beginning and intermediate students with an emphasis on relaxation and flexibility. Yoga helps students avoid strains and injuries by teaching how to efficiently use their bodies during exercise and daily activities. This class also includes various cooperative games to promote space awareness, teamwork, and cardiovascular improvement. Only repeatable twice.

PHY121 or PHY122

GR: 9-12

REQ: PE

REPEATABLE: Yes

PREREQUISITE: None

LENGTH: Semester-long

Fine Arts Courses

(in alphabetical order)



Art 1

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.

FA101

GR: 9-12
REQ: CTE or Art
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Art 2

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 Art 3.

FA102

GR: 9-12
REQ: CTE or Art
REPEATABLE: No
PREREQUISITE: Art 1
LENGTH: Semester-long

Ballroom Dancing

This introduction to ballroom dance will emphasize basic patterns and fundamental steps of popular styles such as swing, fox trot, waltz, tango, salsa and cha-cha. The students will get to demonstrate mastery of these styles through choreographed and improvised class performances. Common rules of dance courtesy and a brief overview of ballroom dance history will be included. Music or dance background is not necessary. This course will meet the requirement for a Fine Arts credit, OR one semester of PE credit.

FA112

GR: 9-12
REQ: Art or PE
REPEATABLE: Once per Year
PREREQUISITE: None
LENGTH: Semester-long

Drumming, Introduction

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.

FA106

GR: 9-12
REQ: Art
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Guitar, Beginning/Intermediate

This course is designed for beginners and students with some prior experience to learn the basics of guitar and music theory. This course will focus on basic chords, both tablature and note reading, learning how to count rhythms, and broaden basic skills with student song choices. A limited number of school guitars are available to use, but students are encouraged to supply their own acoustic guitar if possible.

FA110 + FA111

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Fine Arts Courses

(continued)



History of Rock & Roll

FA105

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 artists 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, reflections, class discussions, research, and presentations.

GR: 9-12
REQ: Art
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Jazz Band

FA130 + FA131

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. This class will meet at 7:00AM before school Monday-Thursday.

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: Playing Experience in Performing Ensemble or Permission
LENGTH: Year-long

Music Creation Lab

FA108

This class is designed for students who are interested in creating their own music. We will cover units on Songwriting, Lyric writing, Composition using staff paper and notation, Electronic composition using computer programs/sampling. There will be opportunities to share your creations throughout the course. We will cover copyright law and "next steps" for budding musicians. Your musical creations will be as unique as you are. Discover the music inside you!

GR: 9-12
REQ: Art or CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Percussion Ensemble

FA122 + FA123

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.

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Year-long

Fine Arts Courses

(continued)



Piano/Keyboard, Beginning

In this class, students will learn the basic skills necessary to play the piano. We will learn the note names and basic music reading skills. We will learn about hand positions. We will learn about reading melody lines and playing with chords and lyrics. No experience necessary. Students already studying piano may take this class as a peer mentor with some time for practicing. Shared keyboards will be provided in-class, but not for take-home.

FA107

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Symphonic Band

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.

FA120 + FA121

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Year-long

Symphony Orchestra

Symphony Orchestra students will focus on both the fundamentals and advancing levels of string technique through a wide variety of orchestral music and performances. This class will collaborate with the Advanced Chamber Orchestra to perform combined orchestra music for the seasonal concert. Participation in all performances and large group festival is required. Participation in the honor festival, solo and ensemble, and the spring trip is not required, but highly recommended. Students may audition for Advanced Chamber Orchestra in March for the following School year after completing one year of Symphony Orchestra.

FA124 + FA125

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: 2 or More Years
Playing Experience or
Permission
LENGTH: Year-long

Talons

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.

FA128 + FA129

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: Interest in
Singing & Natural Tenor/Bass
Range
LENGTH: Year-long

Fine Arts Courses

(continued)



Theater Arts

Theatre Arts 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 students and has the ability to inspire creativity and confidence in students in any endeavor.

FA103 + FA104

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Treble Choir

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.

FA126 + FA127

GR: 9-12
REQ: Art
REPEATABLE: Yes
PREREQUISITE: Interest in Singing & Natural Soprano/Alto Range
LENGTH: Year-long

Unified Music

In this class all students will have access to music-making that is age appropriate as well as developmentally appropriate. We will explore the different genres of music through listening. We will work on music skills such as steady beat, dynamics, tempo, and pitch through activities like bucket drumming, rhythm stick playing, solfege hand signs, and movement with music. We will develop individual musical skill through singing and beginning keyboarding. Students will have an opportunity to put on a recital where they will show individual musical expression. This course is for students in Life Skills, students with IEP's, and anyone who is interested in learning about music at their own pace. Peer tutors may also choose to work in this class to develop mentorship skills.

FA109

GR: 9-12
REQ: Art
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Video Production

This class is designed to teach students the basics of video production. Students will learn the fundamentals of video production, including camera operation, sound, lighting, editing, and storytelling. Through hands-on experience, students will learn how to create compelling videos. By the end of the course, students will have the skills and knowledge to create and edit their own professional-looking videos.

STS101 + STS102

GR: 9-12
REQ: CTE or Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Career & Technical Education



Agricultural Education

Agricultural Science 1

AG101

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.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Agricultural Science 2

AG102

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. Interested in drones? Learn firsthand how they are being used in agriculture. 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!

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: Ag Sci 1
LENGTH: Semester-long

Animal Science

AG121

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.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: Ag Sci 1
LENGTH: Semester-long

Aquaculture & Fisheries 1

AG131 + AG132

This course framework introduces the scientific and algebraic principles to aquaculture and fisheries management. The course includes units on safety and well-being, stewardship and sustainability, biology and ecology of aquatic organisms, water quality and animal husbandry, data science and analysis, facility operations and maintenance, marketing, and communication, and career pathways. The course aligns with and can be used in conjunction with the Advanced Aquaculture and Fisheries framework. Students will complete a Supervised Agricultural Experience (SAE) as part of the course. The course is designed to meet requirements for 1.0 credit in lab science.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Career & Technical Education



Agricultural Education (continued)

Environmental Science – AP or WWUHS

SCI103 + SCI104

AP Environmental Science is the advanced science option for 9th grade students 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.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: 9TH Grade: B or better in Middle School Science + Algebra 1 recommended
LENGTH: Year-long

Horticultural 1

AG111

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.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Horticultural 2

AG112

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.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: Yes
PREREQUISITE: Horticulture 1
LENGTH: Semester-long

Career & Technical Education



Agricultural Education (continued)

Introduction to the Trades

This is an introductory class that is meant to connect students with various different trades and industries available in this area. It includes learning specifics of each of these trades while taking a "hands on" approach. Businesses/companies involved in these trades will be visited and/or incorporated within the classroom as much as possible. There is no prerequisite for this course. Preference given to juniors and seniors.

AG171
GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Metals Technology 1

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 2. Students may earn college credits through Bellingham Technical College by completing this course, Metals Technology 2, Advanced Metals Technology, and the content competencies with a grade of B or better.

AG151
GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Metals Technology 2

This will be a course that strengthens basic skills learned in Metals Technology 1. 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 by passing this course and Advanced Metals Technology with a "B" or better.

AG152
GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: Metals Tech 1
LENGTH: Semester-long

Small Engine Overhaul

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.

AG161 + AG162
GR: 9-12
REQ: CTE
REPEATABLE: With Permission
PREREQUISITE: None
LENGTH: Semester-long

Career & Technical Education



Business & Marketing

Exploring Computer Science

BUS216

This course focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer hardware, web design, programming and algorithms, data types and artificial intelligence.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Introduction to the World of Business

BUS101

This class is designed to introduce students to the business classes offered at the high school. The different units will cover finance, marketing, sports/entertainment marketing & management, retail management, and advanced business. Each unit will be approximately two weeks long. If you are interested to learn an overview of the world of business, this class is designed for you.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Marketing, Introduction

BUS111

This class will explore current market strategies, the marketing environment, and marketing ethics. Students will get to know how marketing concepts work in the business and global economies. Students will learn how real companies face marketing challenges, and they will have the opportunity to market their own business by creating a marketing plan and website.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Social Media Marketing – CTE Dual Credit

BUS114 + BUS115

This class focuses on the use of social media in marketing and business. Concepts to be covered include online selling, promotion, advertising, content creation, and helping you or your business increase in popularity. Additionally, this class includes instruction in the use of social media to promote important causes and charitable organizations. Lastly students will get the opportunity to participate in a realistic social media simulation. In this simulation, students will learn how to write targeted social media ads, perform demographic targeting, implement social media content promotion strategies, and schedule content.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Career & Technical Education



Business & Marketing (continued)

Web Design 1 – CTE Dual Credit

BUS137

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 learn to write code, but with some hard work, you'll be a code ninja by the end of the semester.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Web Design 2 – CTE Dual Credit

BUS138

You will take what you learned in Web 1 to the next level. Working mostly at your own pace, you will explore advance techniques, such a customizing website 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, and learn how to add advanced features and interactivity with JavaScript.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: Web Design 1
LENGTH: Semester-long

Career & Technical Education

Family & Consumer Sciences



Health

FCS101

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.

GR: 9-12
REQ: Health/CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Latinos in Action

FCS111 + FCS112

LIA is a national program designed to provide students with the following 3 components: College & Career Readiness, Leadership Experiences & Development, and Community Service via Tutoring. Throughout this year-long elective course, students are immersed in a culturally-relevant curriculum that closes the opportunity gap for Latino youth. Students are provided an opportunity to serve their community by providing literacy tutoring to elementary students. You do not have to be Latino to partake in this course.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Year-long

Career & Technical Education



Health Sciences

Basic Anatomy in Healthcare

HSC101

There is great potential for futures in Healthcare. By 2026, there is a predicted shortfall of 2 million healthcare professionals. Health Sciences: Anatomy and Health is designed to create an awareness of basic structure and anatomy of the human body. Instruction includes beginning anatomy, physiology, and basic medical terminology. Also, creating healthy behaviors, creating life-long fitness, health maintenance, and understanding safe living as it relates to disease, and disorders. Students will develop practical skills for evaluating health such as blood pressure, heart rate, body fat testing, and other health metrics. The course prepares students for future coursework in Beginning Sports Medicine, Advanced Sports Medicine and Medical Terminology/ Anatomy & Physiology.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Healthcare Careers & Emergency Skills

HSC102

Interested in a career in healthcare? This is the class designed to give an insight into healthcare careers through healthcare professional guest speakers and to learn emergency response skills. This class is designed to develop insight into the current state of healthcare. A large portion of this class is looking at a variety of healthcare careers in the areas of therapeutic services, health informatics, diagnostic services, biotechnology, support services, and alternative medicine. Soft employability skills will be highlighted for future success as a healthcare professional. Students will also develop emergency response skills including Lay Responder CPR, First Aid, and AED. The course prepares students for future coursework in Beginning Sports Medicine, Advanced Sports Medicine and Medical Terminology/ Anatomy & Physiology.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Principles of Biomedical Science

HSC115 + HSC116

Dive into the fascinating world of biomedical science with this introductory course designed for students interested in health science careers. Through Project Lead the Way's innovative curriculum, students will explore the principles of biomedical science and the technologies that drive advancements in healthcare. This course covers a range of topics including human physiology, genetics, microbiology, and public health. Students will engage in hands-on activities and projects that simulate real-world biomedical challenges, such as diagnosing diseases, developing medical devices, and understanding the impact of biomedical innovations on society.

GR: 9-12
REQ: CTE or Lab Science
REPEATABLE: No
PREREQUISITE: None
LENGTH: Year-long

Career & Technical Education



Health Sciences (continued)

Sports Medicine

Sports Medicine is designed to give students an opportunity to gain knowledge and skills in a healthcare field and apply them in a practicum setting within FHS. 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 Sports Medicine/ Athletic Training Room. Students will learn applicable healthcare skills in emergency care, basic anatomy and physiology, prevention, care and rehabilitation of injuries, sports nutrition, strength and conditioning, and health-related issues to be used in a wide variety of future healthcare professions including but not limited to nursing, physical therapy, general medicine, family medicine, diagnostics (Xray, MRI, ultrasound) and emergency medical services. The major emphasis of the class is to acquire 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 Sports Medicine/ Athletic Training Room (SMATR) after school and/or during athletic events or within a supervised internship. Students obtain an extra course credit in Sports Medicine Practicum for the extra time (Pass or No Credit, not letter grade).

HSC111 + HSC112

GR: 9-12

REQ: CTE or Lab Science

REPEATABLE: No

PREREQUISITE: None

LENGTH: Year-long

Career & Technical Education

Skilled & Technical Sciences



Art 1

FA101

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.

GR: 9-12
REQ: CTE or Art
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Art 2

FA102

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 Art 3.

GR: 9-12
REQ: CTE or Art
REPEATABLE: No
PREREQUISITE: Art 1
LENGTH: Semester-long

Cybersecurity

STS112

This course introduces students to the fundamentals of cybersecurity. Students will explore key concepts related to protecting computer systems, networks, and sensitive data from cyber threats. The course covers topics such as network security, ethical hacking, risk management, cryptography, and digital forensics. Through hands-on labs and simulations, students will gain practical experience in identifying vulnerabilities, implementing security measures, and responding to cyberattacks. By the end of the course, students will have a foundational understanding of cybersecurity principles and be prepared for entry-level positions in the growing field of cybersecurity. This course provides an excellent foundation for students interested in pursuing advanced studies or certifications in cybersecurity and information technology.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Information Technology – CTE Dual Credit

STS111

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 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 Help Desk. Completing this course successfully, students will have the opportunity of earning an IT Fundamentals Professional Certificate which they can put on their resume when applying for an IT position.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Career & Technical Education

Skilled & Technical Sciences (continued)



Music Creation Lab

FA108

This class is designed for students who are interested in creating their own music. We will cover units on Songwriting, Lyric writing, Composition using staff paper and notation, Electronic composition using computer programs/sampling. There will be opportunities to share your creations throughout the course. We will cover copyright law and “next steps” for budding musicians. Your musical creations will be as unique as you are. Discover the music inside you!

GR: 9-12
REQ: Art or CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Scoreboard Media

STS113 + STS 114

In Scoreboard Media, students will gain hands-on experience in operating and creating dynamic content for the digital scoreboards used in high school sporting events. This semester-long course offers a unique opportunity to learn the technical aspects of scoreboard operation while also exploring the creative side of generating multimedia content for a variety of sports, including football, soccer, volleyball, basketball, and wrestling. Students will work with both outdoor and indoor digital scoreboards, learning to manage live game statistics, player information, and real-time score updates. Additionally, they will develop and display engaging graphics, animations, and video clips to enhance the fan experience.

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Theater Technology

STS115 + STS116

Theater Technology is for students with an interest in developing work-related skills in the theater tech and/or live production industry. Emphasis is on the development of skills in technical aspects of the theater, including scenic design and construction, scene painting, rigging, lighting and sound engineering and production, as well as individual projects in design and/or construction.

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Video Game Design, Introduction

STS121

Learn basic game design fundamentals while building 2D games for PC using Construct 3! In this class you will learn about the software, hardware, and techniques used to represent, display, and manipulate two-dimensional objects on a video screen. Topics include sprites, tilemaps, programming, level design, and more. Learn to think like a game designer by building your own simple video game! All students are welcome.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Video Production

STS101 + STS102

This class is designed to teach students the basics of video production. Students will learn the fundamentals of video production, including camera operation, sound, lighting, editing, and storytelling. Through hands-on experience, students will learn how to create compelling videos. By the end of the course, students will have the skills and knowledge to create and edit their own professional-looking videos.

GR: 9-12
REQ: CTE or Art
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Career & Technical Education



STEM

Design & Construction

STEM13

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. Emphasis will be placed on the construction of assigned and student-selected projects/products.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Design & Construction, Advanced

STEM14 + STEM15

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.

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: Design & Construction
LENGTH: Semester-long

Engineering Design 1

STEM11

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 learn to apply the design process from problem statement to finished solution, including building prototypes with the 3D printer and CNC router.

GR: 9-12
REQ: CTE
REPEATABLE: No
PREREQUISITE: None
LENGTH: Semester-long

Engineering Design 2

STEM12

This is a continuation of Engineering 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.

GR: 9-12
REQ: CTE or 3rd Year of Math
REPEATABLE: No
PREREQUISITE: Engineering Design 1
LENGTH: Semester-long

Geometry STEM

STEM23 + STEM24

Geometry is used to describe, design, and build things. In Geometry STEM you will learn the proper terminology to accurately describe objects in both the real world and in the idealized world. You will precisely model these objects in Rhinoceros and Grasshopper (CAD software). You will be given design challenges that will require you to build what you design. This class will follow the statewide framework and will include the following seven units: Measurement/Precision, Two Dimensional Shapes, Three Dimensional Figures, Transformations, Trigonometry, Logic, and Applications. This class will require the same amount of time and effort as a standard geometry class, but it will be taught through the design process. In addition, this class will keep your algebra skills fresh enough so that you can continue in Algebra II the following year.

GR: 9-12
REQ: Geometry or CTE
REPEATABLE: No
PREREQUISITE: Algebra 1
LENGTH: Year-long

Career & Technical Education



STEM (continued)

Robotics 1

Students in this class will design, build, and program wireless robots. They will also explore various applications and processes of robotics. The goal of the course is to expose students to use basic engineering principles and technical skills in developing and using robotics. Includes instruction in the principles of robotics, design and operational testing, system maintenance and repair procedures, robotics computer systems, control language, and safety.

STEM16 + STEM17

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Robotics 2

Robotics 2 is a hands-on, high-tech course where you'll design, build, and program a competitive robot using VEX robotics kits. Working in teams, you'll apply engineering principles, coding skills, and strategic thinking to solve real-world challenges. There's a role for everyone—whether you're a programmer, designer, driver, builder, or statistician, your skills will help shape the team's success. Throughout the course, your robot will go head-to-head with others in multiple competitions as part of the Whatcom County Robotics League. Get ready to innovate, collaborate, and compete!.

STEM26

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: Robotics 1 or
Teacher Approval
LENGTH: Semester-long

Unified Robotics

Unified Robotics is an inclusive, hands-on course that brings students of all abilities together to explore robotics and engineering using LEGO® Education SPIKE™ Prime kits. Students work collaboratively to design, build, program, and test robots while developing problem-solving, communication, and teamwork skills. The course emphasizes creativity, real-world STEM applications, and a supportive learning environment that fosters confidence and belonging. Unified Robotics encourages interest in STEM pathways and empowers all students to participate meaningfully in innovation and technology. Peer mentors are welcome to provide leadership and support to their teammates.

GR: 9-12
REQ: CTE
REPEATABLE: Yes
PREREQUISITE: None
LENGTH: Semester-long

Miscellaneous



MIS101 + MIS102

Academic Workshop

Have you ever wanted a class that would address your whole academic experience? This class will allow you time to understand and refine necessary skills for high school, develop habits of mind and work on the demands of your other classes. Each period will be a workshop with a teacher guided mini-lesson focused on a skill or habit of mind. In addition, time each day will be dedicated to independent work time with peer and teacher support focused on your personal goals.

GR: 9-12

REQ: Elective

REPEATABLE: Yes

PREREQUISITE: None

LENGTH: Semester-long