

Ferndale Unified School District Ferndale High School 2022-2023 Course Catalog

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**FERNDALE HIGH SCHOOL
GRADUATION REQUIREMENTS**

Students earn five (5) credits each semester for each class that they pass with a grade of D- or higher.

Students must have a minimum total of 230 credits in order to graduate.

Credits are divided as follows by year of graduation.

SUBJECT

English	40
Math (requires passing grade in Algebra I or higher)	30
Social Studies (World Civilizations, US History, Civics/Economics)	30
Science (one year physical - one year biological)	20
Fine Arts or Foreign Language	10
PE (Four sport seasons may be used to substitute up to a year of PE)	20
Student Success and Technology	10
Financial Management	10
Health	5
Driver Education/State Requirements	5
Electives	50
TOTAL	230

A-G Requirements for UC/CSU

Colleges and universities want to know that you have taken the kinds of classes that will prepare you to do well when you arrive at their campus. Which courses they count and which they don't might vary from one college to another, so the best way to be sure that you are eligible at any college you might want to apply to is to satisfy the UC and CSU's required courses. These are known as the A-G requirements. If you satisfy them, you will have the courses you need to meet the basic eligibility requirements for almost any university. You must receive a grade of "C" or higher for all A-G courses in order for them to count for eligibility.

- **History / Social Science (2 years) "A"**
Two years of history/social science, including one year of world history, cultures and geography; and one year of US history, or one-half year of US history AND one-half year of American government.
- **English (4 years) "B"**
Four years of college-preparatory English. If taking ESL-type classes, only the highest year can be counted towards this requirement.
- **Math (3 years required; 4 years recommended) "C"**
Three years of college preparatory mathematics; the minimum pattern is Algebra I, Geometry, and Algebra II. Math courses taken in the 7th and 8th grades that the student's high school accepts as equivalent to its own may be used to fulfill a part of this requirement.
- **Laboratory Science (2 years required; 3 years recommended) "D"**
Two years of laboratory science in at least two of these three subjects: biology, chemistry, and physics.
- **Language Other than English (2 years required; 3 years recommended) "E"**
Two years of the same language other than English. Courses taken in the 7th and 8th grades may be used to fulfill part of this requirement if the student's high school accepts them as equivalent to its own courses.
- **Visual and Performing Arts (1 year) "F"**
A single yearlong visual or performing arts class such as drama, music, or visual art (drawing, painting, woodworking, digital media, etc.).
- **College Preparatory Elective (1 year) "G"**
One year chosen from additional "A-F" courses beyond those used to satisfy the requirements above, or courses that have been approved elective classes.

Career Technical Education Pathways

Agricultural Business –	Introductory course – Intro. To Ag. Concentrator Course – Ag. Leadership Capstone Course – Ag. Intern
Agricultural Mechanics –	Introductory Course – Ag. Mechanics Concentrator Course – Intermediate Ag. Mechanics Capstone Course – Advanced Ag. Mechanics
Agriscience -	Introductory Course – Intro. to Ag. Or Ag. Biology Concentrator Course - Ag. Chemistry Capstone Course – Advanced Interdisciplinary Ag. Science
Floral Design -	Concentrator Course – Floral Design Capstone Course – Advanced Floral Design
Health Careers -	Introductory Course – Health (Intro. to Patient Care) Concentrator Course – Applied Kinesiology and Patient Care Capstone Course – Sports Medicine and Advanced Patient Care

CSF – CALIFORNIA SCOLASTIC FEDERATION QUALIFICATIONS

To qualify for CSF membership each semester follow these guidelines:

1. You must earn a minimum of 10 CSF points from the previous semester's grades.
 - A. The first 4 points must be from LIST 1 courses.
 - B. The first 7 points must be from LIST 1 & 2 courses, or they can all be from LIST 1.
 - C. The remaining points may come from any LIST (1, 2 or 3).
2. You must use no more than 5 courses to qualify.
3. No CSF points are given for physical education, courses taken in lieu of physical education, subjects repeated to improve a grade, courses involving school service such as a Teacher's Assistant or Office Assistant.
4. CSF points are granted as follows:
 - A = 3 CSF points
 - B = 1 CSF point
 - C = 0 CSF points, even if it is an Honors or AP course

One additional point shall be granted for a grade of A or B in an AP or Honors course, up to a maximum of two such additional points are allowed per semester.

A grade of D or F in any course, even in one you cannot use to qualify, disqualifies you for CSF membership for that semester.

CSF List I

English 1
English 2
English 3
English 4
AP English Composition
AP English Literature
Algebra 1
Geometry
Algebra 2
Trigonometry/Pre-Calculus
AP Calculus
Biology
Chemistry
Physics
AP Environmental Science
World Civilization
U.S. History
Civics
Economics
AP U.S. History
Ag. Biology
Advanced Ag. Science
Ag. Chemistry
Spanish 1
Spanish 2
Spanish 3
AP Spanish 4

CSF List II

Geometry By Design

CSF List III

Drama
Film
Algebra 1A
Basic English
Leadership – ASB
Financial Management
Art
Digital Media
Intro to Ag.
Ag. Leadership
Ag. Intern
Intro. to Comp. Science
Driver's Ed.
Health
Applied Kinesiology
Sports Medicine
Student Success
Floral
Adv. Floral
Ag. Mechanics
Intermediate Ag. Mechanics
Advanced Ag. Mechanics
Farm to Table

FOUR YEAR PLAN

<p><u>FRESHMAN YEAR</u></p> <ol style="list-style-type: none"> 1. <u>English 1</u> 2. <u>Student Success and Technology</u> 3. <u>Science</u>: Biology, Ag Biology 4. <u>Math</u>: Algebra 1A, Algebra 1, or Geometry 5. <u>Physical Education</u> 6. (Elective)_____ 7. (Elective)_____ 	<p><u>SOPHOMORE YEAR</u></p> <ol style="list-style-type: none"> 1. <u>English 2</u> 2. <u>Health/State Requirement-Driver Education</u> (one semester each) 3. <u>Science</u>: Chemistry, Ag Chemistry 4. <u>Math</u>: Algebra 1, Geometry, Data Science or Algebra 2 5. <u>World Civilizations</u> 6. <u>Physical Education</u> 7. (Elective)_____
<p><u>JUNIOR YEAR</u></p> <ol style="list-style-type: none"> 1. <u>English</u>: 3 or AP English 2. <u>US History</u> or Honors US History 3. <u>Math</u>: Algebra 1, Algebra 2, Geometry, Geometry by Design, Data Science, Trig/Pre-Calculus 4. (Elective)_____ 5. (Elective)_____ 6. (Elective)_____ 7. (Elective)_____ 	<p><u>SENIOR YEAR</u></p> <ol style="list-style-type: none"> 1. <u>English</u>: 4 or AP English 2. <u>Civics/Economics</u> (one semester each) 3. <u>Financial Management</u> 4. (Elective)_____ 5. (Elective)_____ 6. (Elective)_____ 7. (Elective)_____

ENGLISH/LANGUAGE ARTS DEPARTMENT
(8 semesters are required for graduation)

COURSE TITLE: English 1
DURATION: Two semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: None

This course is primarily focused on grammar and the mechanics of English. Students will learn and practice the parts of speech, parts of a sentence, phrases, clauses, and the correct use of punctuation. Special focus will be given to paragraph development as well as the structure of research and essay development. Throughout the year students will read classics of literature and be instructed in the analysis of literature with an additional focus in cross curricular activity. The last quarter focuses on the master playwright, Shakespeare.

COURSE TITLE: English 2
DURATION: Two semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: None

The goals of English 2 are to familiarize students with some of the prevalent themes in world literature and to teach them how to identify and analyze these literary themes in writing. Students will learn the basics of literary analysis: how to formulate theses and major claims, and how to back up these claims with evidence from the text. They will also practice a wide variety of writing styles. The program will be enriched by a thorough study of grammar and vocabulary. Student progress is evaluated in a variety of ways including essays, tests, daily homework assignments, and class participation. Students in English 2 are encouraged to understand the English classroom as a community of ideas, which means they learn to listen and respond to one another, not just the teacher. At the end of their sophomore year, students should feel comfortable both writing and talking about literature.

COURSE TITLE: English 3
DURATION: Two semesters
STATUS: College preparatory course CSU/UC approved
PREREQUISITES: None

English 3 will provide an overview of American literature from the Civil War to the present. The content of the course will be presented through lecture, class discussion, film, group work, and individual projects. Students will become familiar with major American writers from the Civil War to the present and connect those writers with the literary period, theme, ethnicity, gender, ideology, religion, class, and criticism. Students will continue to define American literature and its particular aesthetics, motifs, subjects, and characters. Students will write responses to assigned reading and class discussions that demonstrate mature, reflective thinking and critical analysis. Most of all, students will enjoy reading American authors.

ENGLISH/LANGUAGE ARTS CONT'D

COURSE TITLE: English 4
DURATION: Two semesters
STATUS College preparatory course, CSU/UC approved
PREREQUISITES: None

In English 4: British Literature, Composition, and Language students will become adept at analyzing increasingly challenging literature and using elements of the writer's craft to refine written, oral, and visual representations in response to literature. Within its extensive history, students will read a wide body of work from its beginnings to the post-colonial writings of today. Students will engage in readings, writings, and discussions that will provoke a deeper appreciation of the English language. Having studied American literature the previous year, students will continue to develop their understanding of literature within a thematic, historical, and cultural context as well as their understanding of language and the writing process.

COURSE TITLE: Basic English
DURATION: Two semesters
STATUS Counts as English Graduation Requirement course
PREREQUISITES: Junior or Senior standing and teacher approval required

Basic English is a course designed for students who need support with language arts curriculum. Students will develop an understanding of literature within a thematic, historical, and cultural context as well as an understanding of language and the writing process.

COURSE TITLE: AP English Literature
DURATION: Two semesters
STATUS College preparatory course, CSU/UC approved
PREREQUISITES: C or better in English and/or recommendation by teacher

The course is designed for the high school student who is ready to begin work at the college freshman level. This means that your insights, your discussion, your appreciation and your understanding of literature will move beyond the expected discourse on plot and characters. Through the different genres that we will read, discuss and study, you will develop your awareness of the writer's craft, will gain confidence in your own critical awareness of literary works, and will increase your sensitivity to literature as a shared human experience. In addition to the reading components of the course you will experience a wide variety of writing opportunities in order to hone your skills as a writer, thinker and literary critic. As a secondary goal, this course will prepare you for the Advanced Placement Literature Exam, which will be taken in the spring. It is the expectation that if you take the AP course, you are willing to take the exam in May as part of the course final.

COURSE TITLE: AP English Language and Composition
DURATION: Two Semesters
STATUS: College preparatory course, CSU/UC approved
PREREQUISITES: C or better in English and/or recommendation by teacher

In this introductory-college level course students will read and analyze a broad range of nonfiction prose. Through close reading and frequent writing students will analyze how language works and become aware of rhetorical strategy in writing. They will learn how to write with a purpose and argument, appeal to an audience and create a strong text structure. Course readings will include analytical, expository, personal and argumentative texts from a variety of styles and authors. Summer reading and writing are required. Students will prepare for the AP English Language and Composition exam.

MATHEMATICS DEPARTMENT
(Six semesters of mathematics required for graduation)

COURSE TITLE: Algebra 1A (Pre-Algebra)
DURATION: 2 Semesters
STATUS: Non-college preparatory, Course counts for math credit for graduation
PREREQUISITES: Recommendation of 8th grade teacher

Less rigorous than the regular Algebra class, this course is designed to insure that students have a solid understanding of integers, fractions, decimals, percent, ratio, and proportion. Students will be required to write, solve, and graph equations and inequalities, as well as use and understand geometric representations to solve quadratic equations. Students will also use algebraic concepts to solve problems involving area, perimeter, and volume of solids. This course will give the student a good foundation for the faster-paced, more rigorous Algebra I class.

COURSE TITLE Algebra 1
DURATION: 2 semesters
STATUS: CSU/UC approved; graduation requirement
PREREQUISITES: C- or better in second semester of Pre-Algebra

Required for high school graduation, Algebra 1 provides the foundation for high school mathematics. This class will cover among other things, properties of real numbers, solving linear equations, graphing linear equations and functions, writing linear equations, solving and graphing linear inequalities, systems of linear equations and inequalities, exponents and exponential functions, quadratic equations and functions, polynomials and factoring, rational equations and functions, and radicals and connections to Geometry. Students will also advance their analytical thinking and problem solving skills.

COURSE TITLE: Geometry
DURATION: 2 semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: C- or better in second semester Algebra

Geometry is a one year course designed to strengthen the student's problem solving abilities by using organized, logical thinking techniques. Designed for the college prep math student this course covers among other things the basics of geometry, reason and proof, perpendicular and parallel lines, properties of polygons, transformations, basic trigonometry, circles, three-dimensional figures, and area and volume.

COURSE TITLE: Geometry By Design
DURATION: 2 semesters
STATUS: Course counts for math credit for graduation
PREREQUISITES: Must have passed/received credit for Algebra 1

This is an integrated course utilizing Geometry concepts in a Building and Construction Trades environment. The course is designed to prepare students for the natural progression to higher math courses, through a course rich in connections to construction projects that will generate interest in the math and increase students' likelihood of success. The applications throughout the course allow students to see the connection between mathematical concepts and the construction of a scale or full-size dwelling. Also, this course could be part of a Building Trades and Construction Academy as an intermediate course in a sequence of construction and mathematical courses. Through the comprehensive integration of woodworking and geometry, students discover geometric concepts as they design and build woodworking products. This course is designed for students who enjoy learning mathematics through creativity and hands-on projects.

MATHEMATICS CONT'D

COURSE TITLE: Algebra II
DURATION: 2 semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: C-or better in second semester Geometry

Algebra II is the most essential course for college prep students in the field of mathematics, as the skills developed and information taught will be used in almost any college-level math course. This class covers, among other things, equations, inequalities, relations, functions (polynomial, rational, exponential, and logarithmic), an introduction to matrices, analytic geometry, sequences and series, and probability and statistics. Students will also advance their analytical thinking and problem solving skills.

COURSE TITLE: Trigonometry/Pre-Calculus
DURATION: 2 Semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: Completion of Algebra II with a C or better

Trigonometry/Pre-Calculus is based primarily on the California State Standards for Trigonometry and Mathematical Analysis. This course will cover among other things, equations, inequalities, relations, functions (polynomial, rational, exponential, logarithmic, and trigonometric), analytic geometry, analytic trigonometry, sequences, series, probability, limits, and an introduction to Calculus. Students will advance their analytical thinking and problem solving skills.

COURSE TITLE: AP Calculus AB
DURATION: 2 semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: Completion of Trigonometry/Pre-Calculus with a C or better

This course teaches all topics related to Functions, Graphs, and Limits; Derivatives; and Integrals as stated in the Calculus AB Topic Outline in the *AP Calculus Course Description*. Enrolled students are expected to take the AP Calculus exam. Appropriate scores on the AP exam result in College credits and at some Universities credit and exemption from some Mathematics course.

SCIENCE DEPARTMENT

(Two semesters of a physical science and two semesters of a life science required for graduation)

COURSE TITLE: Biology
DURATION: Two semesters
STATUS: CSU/UC approved as one of required lab sciences
PREREQUISITES: Freshmen course. Integrated Physical Science or concurrent enrollment in Geometry or if a freshman, must be enrolled in Geometry.

In Biology we study the similarities and differences of living things. We cover Human Anatomy & Physiology, Botany, Zoology, and Ecology to see the differences among organisms. We study the similarities of organisms at the cellular level. We explore DNA as the basics of genetics and inheritance. The students perform lab experiments and activities to reinforce the concepts covered in the class.

COURSE TITLE: Chemistry
DURATION: Two semesters
STATUS: CSU/UC approved as one of required lab sciences
PREREQUISITES: Completion of Geometry, Biology, with a C or higher

In chemistry we study the chemical properties of substances and how they interact with each other. The goal of the course is to be able to explain these interactions at the atomic level using the atomic theory and the kinetic theory of matter. Students do experiments that reinforce the exploration and explanations of these theories. Students collect data using probes that interface with the computer. They use this data to write lab reports where they practice the communication of scientific idea.

COURSE TITLE: AP Environmental Science
DURATION: Two semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: Teacher/Counselor approval, Chemistry required or concurrent enrollment

This course is designed to acquaint you with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading environmental degradation and pollution. The course consists of six chapters covering the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes and Environment and Society. Chapters are divided into several sub-sections, each of which contains text, animations, laboratory simulations and video presentations by experts.

COURSE TITLE: Physics
DURATION: Two semesters
STATUS: CSU/UC approved as one of the required lab sciences
PREREQUISITES: Completion of, or concurrent enrollment in Algebra 2

In this introductory, algebra-based physics class, students explore topics such as Newtonian mechanics, motion in space-time, work, energy, and mechanical waves. Students will gain practical skills in the field of physics through inquiry-based investigations and project-based activities. More than 50% of the class is spent in hands-on, collaborative laboratory work in which students are required to use the scientific method: asking questions, making observations, hypothesizing, designing experiments, analyzing data, and constructing arguments.

SCIENCE CONT'D

COURSE TITLE: Ag Sustainable Biology
DURATION: Two semesters
STATUS: UC/CSU approved college lab science, career technical education pathway course
PREREQUISITES: None

This course provides information, activities, and skills in the area of scientific methods, classification systems, mammalian production, production management, health care, anatomy, physiology, reproduction, nutrition, mitosis, meiosis, respiration, and genetics. Emphasis is placed on mammals which are most important to human culture as we know it. Homework varies by unit, but averages about one assignment per week. Tests are given regularly and students will be expected to participate in assignments, labs, activities, class discussion, and other structured events. Notebooks are required and are graded periodically.

COURSE TITLE: Ag Soil Chemistry
DURATION: Two semesters
STATUS: CSU/UC approved as one of required lab sciences, career technical education pathway course
PREREQUISITES: Recommended Passed Algebra 1 with C- or better

This course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agriscience research program to be conducted throughout the first semester of the course. To complete that whole project each student will investigate and test an Agriscience research question by formulating a scientific question related to the course content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data.

COURSE TITLE: Advanced Interdisciplinary Agricultural Science
DURATION: Two semesters
STATUS: CSU/UC approved as one of required lab sciences, career technical education pathway course
PREREQUISITES: Must have C- or better in Bio or Ag. Bio AND Chem. or Ag Chem.

Advanced Interdisciplinary Science for Sustainable Agriculture is an integrated class that combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, including the chemical and biological principles that govern plant science and crop production, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students connect the products created in this class with industry activities to link real world encounters and implement skills demanded by both colleges and careers. The course culminates with an agriscience experimental research project in which students design and conduct an experiment to solve a relevant agricultural issue. Throughout the course, students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

SOCIAL SCIENCE DEPARTMENT

(Two semesters of World Civilization, two semesters of U.S. History, one semester of Civics and one semester of Economics are required for graduation)

COURSE TITLE: World Civilizations
DURATION: Two semesters
STATUS: College preparatory, CSU/UC approved
Required for graduation from Ferndale High
PREREQUISITES: Sophomore-level status

In this course, students will examine regions of the world through a historical, geographical, and cultural perspective. There will be an emphasis on the origins of the main religions of the world and their effect in today's world. Current events will be analyzed on a daily basis, with the focus on world events and occasional local or state events. Geography will be studied through map skills and the relationship between various places. Culture is examined through the everyday activities of citizens in various regions. Through this course students will gain an understanding of events from a world perspective through a combination of facts and analysis of differing points of view.

COURSE TITLE: U.S. History
DURATION: Two semesters
STATUS: College preparatory; CSU/UC approved
Required for graduation from Ferndale High
PREREQUISITES: Junior-level

US History is covered chronologically from our origins to present day. Approximately a third of the year is spent on pre-1900 with emphasis more on the why and how than on the specifics. The post -1900 topics are then covered in more depth from the Populist/Progressive Movements through the Cold War and on to present day. Topics are constantly being tied to current events and circumstances.

COURSE TITLE: Honors U.S. History
DURATION: Two semesters
STATUS: College preparatory; CSU/UC approved
PREREQUISITES: Junior or Senior with teacher recommendation

An exploration in the history of the United States from the original inhabitants of the North American continent to the present. Of special importance is how the social, cultural, political, diplomatic, technological/scientific, and economic relations and institutions changed over time. The course will also introduce students to the nature of historical interpretation and how to interpret sources written during the historical time periods investigated in the class. This is a dual-enrolled class with College of the Redwoods. Starting with the second semester in January 2022, students have the opportunity to earn 3 college credits each semester with a final grade of C or better.

SOCIAL SCIENCE (CONT'D)

COURSE TITLE: Civics
DURATION: One semester
STATUS: College preparatory; CSU/UC approved
Required for graduation from Ferndale High
PREREQUISITES: Senior-level status

In Civics the units of study are: Origins of our Government; Politics; Legislative Branch; Executive Branch; Judicial Branch; and Comparative Governments. The main thrust of the course is to prepare the students for active participation in our political system. What is going on currently is discussed daily and students are encouraged to develop opinions on different topics of discussion. By the end of the course students have a good idea of where they stand on the political spectrum and why. All the specifics of how the government works and how the branches interact with each other are covered in this class.

COURSE TITLE: Economics
DURATION: One semester
STATUS: College preparatory; CSU/UC approved
Required for graduation from Ferndale High
PREREQUISITES: Senior-level status

Economics is the study of limited resources and seemingly unlimited wants and the decisions that must be made because of this problem. Students learn how to make personal economic decisions and leave this class with a good understanding of why economic decisions are made. Since most of the items that we vote on today are based on some type of economic problem, the material covered coordinates with material studied in Civics. Other economic systems are compared to ours in this class, and current changes in our system are also discussed.

FOREIGN LANGUAGE DEPARTMENT

(One year of Spanish OR one year of a fine art is required for graduation)

COURSE TITLE: Spanish 1
DURATION: 2 semesters
STATUS: college preparatory; CSU/UC approved
PREREQUISITES: None

This course develops skills in listening, speaking, reading, and writing. Students practice these skills by means of oral, written and listening comprehension exercises, and activities. Students will work in pairs and groups and as a whole class and are expected to use as much Spanish as possible. Active participation is essential. Cultural studies and activities are also an integral part of the course. This course is taught completely in Spanish.

COURSE TITLE: Spanish 2
DURATION: 2 semesters
STATUS: college preparatory; CSU/UC approved
PREREQUISITES: C- or better in second semester of Spanish I

Students continue to develop the skills learned in Spanish I by means of similar, yet more advanced activities, projects, and class groupings. Cultural studies remain an important part of the course. More emphasis on authentic communication and reading skills will be implemented. Active participation in Spanish is essential. This class is taught completely in Spanish.

COURSE TITLE: Spanish 3
DURATION: 2 semesters
STATUS: college preparatory; CSU/UC approved
PREREQUISITES: C- or better in second semester of Spanish II

This course continues, enhances and furthers skills developed in the first two years of study. Extensive practice in the areas of speaking, listening, reading and writing will be given. Cultural awareness, particularly in the contemporary context, will also be included. The class will be conducted in Spanish and students will be expected to participate on a daily basis. There will be field trips as well in this class.

COURSE TITLE: AP Spanish 4
DURATION: 2 semesters
STATUS: college preparatory; CSU/UC approved
PREREQUISITES: C- or better in second semester of Spanish III

This course is offered on demand. The structure and content of the course will vary according to the preferences of enrolled students, but the areas of speaking, listening, reading, and writing will always be included. Preparation for the Advanced Placement test in Spanish Language will be included if students so desire.

PHYSICAL EDUCATION DEPARTMENT

(2 years required for graduation)

COURSE TITLE:	Physical Education
DURATION:	Two semesters
STATUS:	Students who participate in a full season of varsity sports may petition to waive up to two semesters of PE credits to meet their graduation requirement. Participation in two varsity sports may earn credit for one semester and participation in four varsity sports may earn credit for two semesters of PE.
PREREQUISITES:	None

Physical fitness will stem from vigorous physical activity on a regular basis through a variety of sports. Students will participate in three-week units, which include football, angle ball, soccer, indoor soccer, basketball, team handball, volleyball, hockey, pickle ball, badminton, table tennis, tennis, and softball. Running or weight programs may also be incorporated into the program. The emphasis in this coeducational class will be placed on effort and sportsmanship along with developing positive personal character traits in differing pressure situations. Each student, regardless of athletic ability, will improve his/her state of fitness and experience recreational, competitive, and cooperative values inherent in a variety of team and individual activities.

COURSE TITLE:	Strength and Conditioning
DURATION:	Two semesters
STATUS:	PE Credit or Elective Credit
PREREQUISITES:	Sophomore, Junior or Senior standing; Participation in school sport; C or better in PE

The strength and conditioning course is designed to assist our student athlete's body and mind. The class is an athletic free weight strength training course, with sport specific conditioning. Participation in a sport is mandatory for enrollment in this course. In addition, a student athlete must have completed freshman Physical Education with a "C" or better, with teacher's discretion on admittance to the course. If a student athlete is academically ineligible and or removed from the athletic team the student will be reassigned.

REQUIRED COURSES FOR GRADUATION

One year of Student Success and Technology (9th grade), one year of Health/Driver's Ed./Patient Care Requirement (10th grade) and one year of Financial Management (12th grade) are required for graduation.

COURSE TITLE: Student Success and Technology
DURATION: Two Semesters
STATUS: Required for graduation from Ferndale High
PREREQUISITES: None

This course will set up students to succeed in the classroom throughout their high school career and beyond. It will focus on student application of knowledge, each individual's personal investment, goal setting and achievement. Students will, "Start Off Right" by learning how to utilize agendas, take notes, and organize their future as they examine possible careers. In addition, they will learn basic application and formatting of high school and college papers, cover and introductory letters, resumes, proposal formats, and proper presentation formats. Microsoft Office's Word, Excel, Publisher, and other tools will be utilized for classroom manipulation of data. Students will also learn to become versatile in Google Applications, basic web design and other tools available through the Google Suite.

COURSE TITLE: Health, Driver's Education and Intro. to Patient Care
DURATION: Two semesters
STATUS: Required for graduation from Ferndale High
PREREQUISITES: Sophomore status

This class, required at the sophomore level, is intended to foster the development of each individual's physical, mental, and emotional state of well-being, leading to healthy choices and lifelong good health. To encourage students to begin thinking about managing their own health, curriculum units include decision-making, fitness, stress, loss, reproduction, violence, disease, and disorder. This course also offers CPR and First Aide certifications and an introduction to patient care. You will be learning different first-aid techniques including patient assessment, CPR, the recognition, treatment, and prevention of medical and environmental emergencies. You will be introduced to management of emergencies over a long period of time, and such training will include cleaning and closing wounds, treating dislocations and fractures, long term care of cold & heat problems, and when appropriate "clearing the spine" to name a few priority considerations. The driver's education portion of the course and textbook bring together the most advanced information available on driving maneuvers and decisions. This course will focus on factors relating to vehicles, drivers, and the highways-parts of the system with which you must learn to interact. One of the primary purposes of driver education is to help you become more aware of the elements around you as you drive. It's better to know first aid and not need it than to need it and not know it.

COURSE TITLE: Financial Management
DURATION: Two semesters
STATUS: Required for graduation from Ferndale High
PREREQUISITES: Senior year

Finance Management teaches financial aspects of career planning, money management, consumer rights and responsibilities, decision making, banking services, credit management, real estate, investments, insurance, and tax aspects of financial decisions. The activities in the course include real life projects that teach skills necessary to analyze finances and to apply math when making financial decisions.

FINE ART CLASSES

(One year of Fine Arts OR one year of foreign language required for graduation)

COURSE TITLE: Art
DURATION: Two semesters (may be repeated)
STATUS: Meets visual and performing art requirement for CSU & UC
PREREQUISITES: None

Art is considered a beginning class where students will be introduced to many different techniques, mediums, and styles which encompass the field. The first semester is entirely dedicated to drawing where students will learn how to tap in to the right side (or creative side) of the brain. Next, we will move into scratch art, and Contrasto. The majority of the second quarter will focus upon painting mediums, and styles. During the third quarter, students will become familiar with block printing, rubber stamping, charcoal and pastel. The fourth quarter will consist of crafts to include dream catchers, beadwork, paper mache masks, and ceramics. Students will also be given opportunity to work on art projects of their own choosing.

COURSE TITLE: Drama
DURATION: Two semesters
STATUS: Meets visual and performing art requirement for CSU & UC
PREREQUISITES: None

The student will learn all the basics of the dramatic arts from the history of theater, monologues, group performance, reader's theater, and ultimately to stage performance. Basic make-up skills as well as stage design are covered to round out the student's experience. Speech communication is introduced as a way of enabling the participants the opportunity to learn to present themselves in front of both small and large groups.

COURSE TITLE: Film
DURATION: Two semesters
STATUS: Meets visual and performing art requirement for CSU & UC
PREREQUISITES: None

IN this course students will learn prevailing terms and techniques used in Film. Students will develop an understanding and appreciation of the history of Film as well as its contribution to the Film industry as a developing art form. The course includes a basic study of history, theatrical techniques and format of current film as a genre. Students will learn to analyze, reflect and critique film from a historical, cultural and aesthetic point of view. They will learn about the various roles that go into the making of a film and by the end of the course will write their own short film using script writing techniques and format. Students will be assessed through daily analytical papers, written reflection, class participation and group as well as individual projects.

COURSE TITLE: Floral Design
DURATION: Two semesters
STATUS: Meets visual and performing art requirement for CSU & UC and is a career technical education pathway course
PREREQUISITES: Introduction to Agriculture, Ag Mechanics 1, or teacher approval
Recommended for 10-12th grade students

The development of technical skills, record keeping, and leadership activities serves as a foundation for complex artistic floral designs, as well as developing floral industry competencies.

FINE ART CONT'D

COURSE TITLE: Advanced Floral Design
DURATION: Two semesters
STATUS: Meets visual and performing arts requirement for CSU/UC and is a career technical education pathway course
PREREQUISITES: Floral Design

Expand and refine your floral design skills by exploring historical and international floral design. This course includes advanced linear, sheltered, Phoenix, wire structure, abstract, and cascade or waterfall designs. Techniques include basing, binding, banding, wiring, taping, and use of chicken wire as you work with a wide range of flowers and foliage. In this project based class, the teacher will demonstrate the elements and principles of design while you work with increasingly challenging concepts and a broad variety of techniques and materials to create exceptional designs.

COURSE TITLE: Digital Media
DURATION: Two semesters
STATUS: Meets visual and performing arts requirement for CSU/UC (may be repeated for elective credit)
PREREQUISITES: Student Success and Technology

Students will learn the skills necessary for publishing a commercial publication, the yearbook. These skills include: marketing, photography, digital photography, page layout, desktop publishing, organization, digital scanning, digital photo enhancement, and file management.

COURSE TITLE: Introduction to Agricultural (AG) Mechanics
DURATION: Two semesters
STATUS: Fine Art Graduation Credit or Elective Credit, career technical education pathway course, UC/CSU Elective credit
PREREQUISITE: None

This course is designed for freshman and first year fabrication students to familiarize them with the general skills they may need for a career in agricultural mechanics or agricultural engineering. First semester is primarily wood working while second semester is primarily welding. Throughout the entire year there will be miniature lessons of shop skills – plumbing, masonry, concrete, electrical, and leadership, including FFA mini lessons.

COURSE TITLE: Intermediate Agricultural (AG) Mechanics
DURATION: Two semesters
STATUS: Fine Art Graduation Credit or Elective Credit, career technical education pathway course and possible CR Articulation
PREREQUISITE: Introduction to Agricultural Mechanics course completion

This course is designed for second and third year students that are interested in working in a field of Agricultural mechanics or engineering. This course would expand the students' knowledge in both wood and metal fabrication, construction and design with various mini lessons throughout the year and more advanced mini lesson projects. The students will begin to focus in on individual shop projects in a material of their choosing.

FINE ART CONT'D

COURSE TITLE:	Advanced Agricultural (AG) Mechanics
DURATION:	Two semesters
STATUS:	Fine Art Graduation Credit or Elective Credit, career technical education pathway course and possible CR Articulation
PREREQUISITES:	Intermediate AG Mechanics course completion and teacher approval

This course is the capstone class of the agricultural mechanic pathway. It is designed to build on the skills students have learned in their previous courses, creating their own projects. This is primarily a project based class. Students will have the opportunity to work in any material of their choosing and utilize the skills attained in the previous two courses. Students will plan for post-secondary education or to enter into the workforce.

ADDITIONAL ELECTIVES

COURSE TITLE: Introduction to Computer Science
DURATION: Two semesters
STATUS: A-G Science/Elective Credit
PREREQUISITES: None

This course provides students with foundational knowledge of programming and computer science. Students will explore topics of human computer interaction, problem solving, web design, computer programming, data modeling and robotics. Other topics could include software design, networking, game design, information support, and artificial intelligence. Social issues in ICT will be introduced such as cybersecurity and ethical computing.

COURSE TITLE: AP Computer Science Principles
DURATION: Two semesters
STATUS: A-G Science/Elective Credit
PREREQUISITES: C or better in Introduction to Computer Science

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. The AP Computer Science Principles course is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

COURSE TITLE: AG Farm to Table
DURATION: Two semesters
STATUS: Elective Credit
PREREQUISITES: None

This course teaches the basic cooking skills. Topics will include: food borne illness, cooking terms and utensils, knife skills, herb and spice, safety. Students work in lab to plan, prepare, and serve the daily school lunch and receive their Food Handler Certification.

ADDITIONAL ELECTIVES CONT'D

COURSE TITLE: Applied Kinesiology and Patient Care
DURATION: Two semesters
STATUS: UC/CSU Elective credit and career technical education pathway course
PREREQUISITES: C or better in Health

A course designed to familiarize students with the fields of Kinesiology, exercise science, and sport studies. Students will examine the systems, dynamics, and principles involved in human development, physical activity, care and prevention of sports injuries, all through hands-on learning. Intended for students interested in coaching, physical education, athletic training and the fitness profession, this course provides basic information on a variety of topics relating to health care for the physically active and competitive athletes. In addition, students will discuss current issues and areas of career opportunities.

COURSE TITLE: Sports Medicine and Patient Care
DURATION: Two semesters
STATUS: UC/CSU Elective credit and career technical education pathway course
PREREQUISITES: C or better in Applied Kinesiology and Health

Advanced Patient Care: Introduction to Sports Medicine is a two semester course designed for students who are interested in fields such as athletic training, physical therapy, medicine, nursing, fitness, physiology of exercise, kinesiology, nutrition, EMT, and other sports medicine related fields. This course focuses on the basic information and skills important in the recognition of care, prevention, and preliminary rehabilitation of athletic injuries. This course includes class work and hands-on application of learning materials to explore these fields of study. Pre-requisites include Public Health & Safety (sophomore-level class) and Applied Kinesiology and Patient Care (junior-level class).

COURSE TITLE: Teacher Assistant
DURATION: Two semesters
STATUS: Elective credit only; pass/fail basis; may be repeated once for credit
PREREQUISITES: Junior or senior standing, by teacher-counselor recommendation. Must have 2.5 GPA and good citizenship.

Students working in the teacher assistant program work one period per day for one of the instructors or office personnel on campus. Students may be used to type, prepare materials, duplicate papers, grade papers, run errands, etc. Students may earn a maximum of 20 credits towards graduation through this program.

COURSE TITLE: Introduction to Agriculture (AG) Science
DURATION: Two semesters
STATUS: Elective credit and career technical education pathway course
PREREQUISITES: None

This course is designed for beginning students in agriculture. The first part of the course covers the FFA and leadership. The remainder of the year the course covers animal productions, and an introduction to plant sciences, record keeping, and the importance of agriculture in our local area, in California, in the United States, and in the world. ***FFA membership is mandatory, and each student must attend 2 FFA related activities per quarter.**

ADDITIONAL ELECTIVES CONT'D

COURSE TITLE: FES Intern
DURATION: Two semesters
STATUS: Elective credit only; pass/fail basis
PREREQUISITES: Senior standing; juniors accepted if space is available
Minimum 3.0 required

Students enrolled in this program work one period per day in a classroom at Ferndale Elementary School. Interns will work directly with students at FES in small-group settings and/or may work one-on-one with a student having difficulty in an academic area. This program is particularly recommended for high school students considering teaching as a career.

COURSE TITLE: ASB Leadership
DURATION: Two semesters
STATUS: Elective credit only - Can be repeated for credit
PREREQUISITES: Elected ASB Officer

This class is designed for the ASB officers. Students use this time to plan school activities and hold ASB meetings.

COURSE TITLE: AG Intern
DURATION: Two semesters
STATUS: Elective credit only; pass/fail basis - career technical education pathway course
PREREQUISITES: Senior standing - Minimum 2.0 required

This class is designed for students holding a labor position in the field of agriculture. The course requires documentation of work time and activities for pass/fail credit.

COURSE TITLE: Agriculture (AG) Leadership
DURATION: Two semesters
STATUS: Elective credit and career technical education pathway course
PREREQUISITE: Prior study of agriculture; FFA officer

This class is designed for the FFA officers. Topics presented will include: chapter functions and activities; chapter finances; judging teams; parliamentary procedure; FFA general and executive meeting procedures; and recreational activities.

COURSE TITLE: Ed Support
DURATION: Two semesters
STATUS: Elective credit only - Can be repeated for credit
PREREQUISITES: Teacher approval

The Educational Support Program is an outgrowth of the focus of the California State Department of Education's emphasis on full inclusion of Special Education students. All students who qualify for this program have a written Individualized Education Program (IEP) and are usually enrolled in this class for a minimum of one period a day. During this period, the student's academic/vocational program is monitored and tutorial assistance is given as needed. Close contact is maintained between the Ed Support staff and the regular classroom instructors. Ed Support

staff also work with appropriate outside agencies to help students develop Individual Transition Plans (ITP) and monitor progress toward goals for the students' futures outside of high school.

FERNDAL HIGH SCHOOL GRADE POINT AVERAGE CALCULATION

There are many ways of calculating grade point averages (GPA) that are used at Ferndale High School. The calculations are based on the requirements of each organization or award program. Please refer to the list on the following page to determine the GPA calculations. Letter grades are valued on the scales as follows:

<u>FHS Scale</u>		<u>FHS Weighted Scale</u> (Used only for Honors or AP classes)		<u>Straight Scale</u>	
A	4.0	A	5.0	A	4.0
A-	3.7	A-	4.7	B	3.0
B+	3.3	B+	4.3	C	2.0
B	3.0	B	4.0	D	1.0
B-	2.7	B-	3.7	F	0.0
C+	2.3	C+	3.3		
C	2.0	C	3.0		
C-	1.7	C-	2.7		
D+	1.3	D+	1.3		
D	1.0	D	1.0		
D-	0.7	D-	0.7		
F	0.0	F	0.0		

Listed below are the different purposes and ways of calculating GPA's used at FHS.

Extra-curricular GPA – Must be a 2.0 minimum with less than 2 F's. All graded classes are included. Calculated at Quarter 1, Semester 1, Quarter 3, & Semester 2. *FHS scale used- FHS weighted scale used for honors and AP classes.*

FHS Academic GPA – All graded classes except PE for 9th, 10th, 11th, & 12th grades. Calculated at semesters. *FHS scale used- FHS weighted scale used for honors and AP classes.*

Scholar Athlete GPA – All graded classes including PE. Calculated at quarter. *Straight scale used.* (Unweighted)

California State University GPA – All graded classes except PE in 10th, 11th, & 12th grades. Calculated at semesters. *Straight scale used.* (Beginning in 2004, only classes in the 15-course unit CSU requirements will be used from 10th, 11th, & 12th grades.)

University of California GPA – Only university qualified “a-g” courses will be used from 10th, 11th, & 12th grades. Calculated at semesters. *Straight scale used.*

Financial Aid GPA – All graded classes except PE in 10th & 11th grade. Calculated at semesters. *Straight scale used.* (Unweighted)

FHS Honor Roll (High Honors) – Student must earn a 3.5 GPA or be eligible by CSF criteria. All graded classes. Calculated at Quarter 1, Semester 1, Quarter 3, and Semester 2. *FHS scale used -FHS weighted scale used for honors and AP classes.*

FHS Honor Roll (Honors) – Student must earn a 3.0 GPA. All grades classes. Calculated at Quarter 1, Semester 1, Quarter 3 and Semester 2. *FHS scale used - FHS weighted scale used for honors and AP classes.* (An Unweighted GPA does not allow for grade “bumps” in AP or honors classes.)