

# Dixon High School

## Course Catalog

2009 - 2010



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# Graduation Requirements

<u>Course Requirements</u>	<u>Semesters Required</u>	<u>Credits Required</u>	<u>UC/CSU Requirement</u> (“C” or better required)
<b>ENGLISH</b>	<b>4 Years</b>	<b>40</b>	<b>4 Years</b>
<b>MATH</b> (Algebra required)* A full year of Algebra or Basic Algebra (fall and spring) must be passed with a grade of D or better in order to satisfy the State of California Algebra graduation requirements.	<b>3 Years</b>	<b>30</b>	<b>3 Years</b> (Algebra, Geometry, Intermediate Algebra or Algebra 2/Trig)
<b>SCIENCE</b> (To include 1 year Life Science and 1 year Physical Science)	<b>2 Years</b>	<b>20</b>	<b>2 Years Lab Science</b> (Biology and Chemistry or Physics required)
<b>SOCIAL SCIENCE</b>			<b>2 Years</b>
<b>World History (10)</b>	<b>1 Year</b>	<b>10</b>	
<b>US History (11)</b>	<b>1 Year</b>	<b>10</b>	
<b>Civics (12)</b>	<b>1 Semester</b>	<b>5</b>	
<b>Economics (12)</b>	<b>1 Semester</b>	<b>5</b>	
<b>HEALTH/TECHNOLOGY</b>	<b>1 Year</b>	<b>10</b>	
<b>PHYSICAL EDUCATION (9/10) **</b>	<b>2 Years</b>	<b>20</b>	
<b>ELECTIVES</b> 1 year Foreign Language or 1 year Vocational Arts (Multimedia, Virtual Enterprise, Home Ec, Ag, or Industrial Arts) 2 <sup>nd</sup> year Foreign Language or 1 year of Fine Arts (Art, Drama, Multimedia or Music)		<b>20</b>	<b>2 Years Foreign Language</b> <b>1 Year Visual and Performing Arts</b>  <b>1 Year other (Adv. Math, Social Science, History, Lab Science, Foreign Language or Visual Performing Arts)</b>
<b>FREE ELECTIVE CHOICES</b>		<b>50</b>	

\*Algebra requirement may be validated by the successful completion of Geometry or Algebra 2/Trig or Intermediate Algebra.

\*\* If one year of Physical Education is completed, two semesters of sports participation in 10th or 11th grades may be counted to fulfill the second year of Physical Education requirement.

If you are enrolled in Marching Band for 2 years, in grades 10-12, fulfills one year of PE, after PE 9 is completed.

**Competency Requirements:**

Students are required to pass the California High School Exit Exam in Language Arts and Mathematics prior to graduation.

# UC/CSU APPROVAL LIST

(AS OF 2009/2010)

## a- History/Social Science

Civics  
Sheltered Civics  
Economics  
\*US History Honors  
Sheltered US History  
World History  
Sheltered World History  
Academy Civics/Economics  
Academy US History  
AP US Government & Politics

## b- English

English 9  
English 10  
English 10 Honors  
English 11  
English 12  
Academy English  
\*AP Comp and Language

## c- Mathematics

Algebra 1 9  
Sheltered Algebra 1  
Algebra 2/Trig  
\* AP Calculus  
Geometry 9  
Geometry  
Intermediate Algebra  
Pre-Calculus  
\* Pre-Calculus Honors  
Statistics

## d- Laboratory Science

Ag Biology  
\*AP Biology  
Biology  
Sheltered Biology  
Chemistry  
\*Chemistry Honors  
Academy Physics  
\*Honors Physics  
Physiology  
Academy Applied Chemistry  
Earth Science in Ag (pending)  
Academy Physiology

## e- Foreign Language

French 1  
French 2  
French 3-4  
Native Spanish 1 (pending)  
Native Spanish 2  
Native Spanish 3  
Native Spanish 4  
Spanish 1  
Spanish 2  
Spanish 3  
Spanish 4  
\*AP Spanish Language

## f- Visual & Performing Arts

Drama  
Drawing 1-2  
Drawing 3-4  
Fashion Design 2  
Jazz Ensemble  
Symphonic Band  
Wind Ensemble  
Multimedia Art 1  
ROP Multimedia 2: Web (pending)  
ROP Multimedia 2: Publication (pending)  
Art Studio  
Ceramics 1 (pending)  
Ceramics 2

## g- Electives

Chicano Studies  
Economics  
Journalism  
Psychology  
ROP Virtual Enterprise

\*Honors Weighted

# ENGLISH

## English 9

Year: 9

Prerequisite: None

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### Course Description

English 9 is a heterogeneous, literature-based program aligned with the state content standards. The course emphasizes the development of the following skills: acquisition of SAT vocabulary words and etymology, improvement of reading comprehension, response to and analysis of literature, development of formal writing skills including essay structure and development of speaking and listening strategies.

### Instructional Materials

Texts: Homer's *Odyssey*, Shakespeare's *Romeo and Juliet*, Mythology materials, Steinbeck's *Of Mice and Men*, Lee's *To Kill a Mockingbird*, and *Prentice Hall Anthology*

### Class Requirements

Students are expected to complete daily assignments in class as well as regularly turn in homework and nightly reading assignments. Students must provide an English notebook, paper, pens, pencils, highlighters, and organizational divider tabs. Passing English 9 is a graduation requirement

## English 10

Year: 10

Prerequisite: None

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### Course Description

English 10 is a literature-based program aligned with the state content standards. This class is aligned with the history curriculum. The course emphasizes the development of the following skills: acquisition of SAT vocabulary words, improvement of reading comprehension, response to an analysis of literature, development of formal writing skills including essay structure and development of speaking and listening strategies.

### Instructional Materials

Texts: One Shakespeare work, Remarque's *All Quiet on the Western Front*, Huxley's *Brave New World*, and Wiesel's *Night*, and Paton's *Cry, The Beloved Country* as well as numerous essays of historical significance.

## English 10 Honors

*Note: Honors weight available ONLY for high school GPA. UC/CSU does not award weighted credit for this course*

Year: 10

Prerequisite: Application and entrance test

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### Course Description

English 10 Honors is a weighted class offered to those students of highest academic achievement in English 9. Honors 10 is a literature-based program aligned with the history curriculum. The course emphasizes the development of the following skills: acquisition of SAT vocabulary words, improvement of reading comprehension, response to and analysis of literature, development of formal writing skills including essay structure and development of speaking and listening strategies.

**Summer Homework:** Students are expected to complete two novels and written work prior to the start of school

### Instructional Materials

Texts: One Shakespeare work, Remarque's *All Quiet on the Western Front*, Huxley's *Brave New World*, and Wiesel's *Night*, and Paton's *Cry, The Beloved Country* as well as numerous essays of historical significance.

### Class Requirements

Students are expected to complete daily assignments in class as well as regularly turn in homework and nightly reading. Students must provide an English notebook, paper, pens, pencils, highlighters, and organizational divider tabs. Passing English 10 is a graduation requirement.

## **English 11**

Year: 11

Prerequisite: None

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### **Course Description**

English 11 is a rigorous survey course of American literature from the 15<sup>th</sup> century to the present. Students read genre literature from Puritanism through Post-modernism and practice a variety of reading strategies and critical thinking exercises to build literacy. Students also develop vocabulary skills by studying SAT words, writing skills through analytical and expository essays, and articulation skills through formal and informal presentations and discussion.

### **Instructional Materials**

Core text: *Timeless Voices, Timeless Themes* (American Literature anthology); Supplementary texts: *The Great Gatsby, The Glass Menagerie, and The Catcher In The Rye, The Crucible.*

### **Class Requirements**

Students are expected to complete daily assignments in class as well as regularly turn in homework and nightly reading. Students must provide an English notebook, paper, pens, pencils, highlighters, and organizational divider tabs. Passing English 10 is a graduation requirement.

## **English 12**

Year: 12

Prerequisite: None

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### **Course Description**

English 12 has a multi-cultural literature focus on archetypal characters and plots, a writing focus on personal and reflective essays suitable for use for college or job applications, and a speech, debate or media studies unit. Students will recognize and manipulate logical fallacies and styles of argumentation. The course aims to help students become more analytical and critical readers, writers, debaters, and viewers.

### **Instructional Materials**

Texts: Tan's *The Joy Luck Club*, Miller's *Death of a Salesman*, Hurston's *Their Eyes Were Watching God*, College Application Essay compilation, newspaper text, miscellaneous essays, articles, and short stories.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as regular homework, consisting of reading and writing. Students are expected to have a binder with paper, pens, pencils, and highlighters. Passing English 12 is a graduation requirement.

## **AP English Composition & Language**

Year: 11/12

Prerequisite: Application, teacher recommendation and placement test

DHS Graduation Requirement: English

UC/CSU approved course: Yes (b)

### **Course Description**

AP Comp and Language English is a rigorous Honors course for seniors which offer college preparatory work in composition and literary analysis. Students read and analyze literary works in all genres and write extensively in a variety of expository modes. At the end of the course, students take the AP Exam in Language and Composition; if they pass, they can receive up to a year's worth of college credit. Application and completion of summer work are required.

### **Class Prerequisites**

Students must apply for placement in this class, and take required entrance tests.

## **English Language Development 1 & 2**

Year: 9 - 12

Prerequisite: Teacher testing and placement

DHS Graduation Requirement: English

UC/CSU approved course: No

### **Course Description**

This is a two period course for beginning English learners. Students in this class speak, understand, read or write little or no English. Although they may know some words in English, they are unable to construct sentences or express their own thoughts. The course

will help the students to develop basic listening comprehension, speaking, reading and writing skills. Students who pass an exit test from this class advance to English Language Development 3 (an intermediate English as a Second Language course.)

### **Class Requirements**

Students are expected to complete daily assignments in class as well as regularly turn in homework and nightly reading. Students must provide an English notebook, paper, pens, pencils, highlighters, and organizational divider tabs. High school English credit is granted for this course.

## **English Language Development 3**

Year: 9 - 12

Prerequisite: Teacher testing and placement

DHS Graduation Requirement: English

UC/CSU approved course: No

### **Course Description**

This is a two period course for early intermediate level students of English Language Development. Students at this level can construct sentences to express their ideas and needs, but their control of structure is inadequate and their vocabulary is minimal to limited.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as regularly turn in homework and nightly reading. Students must provide an English notebook, paper, pens, pencils, highlighters, and organizational divider tabs. High school English credit is granted for this course.

## **Academic Literacy**

Year: 9- 10

Prerequisite: Teacher testing and placement

DHS Graduation Requirement: free elective

UC/CSU approved course: No

### **Course Description**

Academic Literacy is a course to motivate adolescents in becoming more active, engaged and strategic readers. The Academic Literacy course is aligned with the California State Standards and in support of the students' curriculum for English 9/10 classes.

Key components of the course include metacognitive strategies with instruction:

- Reading and writing process for academic purposes
- Critical listening and creative thinking skills
- Note-taking, including mind mapping skills
- Skills application in various contexts
- Oral communication & group work
- Study and time management skills

### **Class Requirements**

Students are expected to complete daily assignments in class as well regularly turn in homework. Students are to maintain organized binders and come prepared with needed materials.

## **Academic Reading Development 9**

Year: 9

Prerequisite: Students must be concurrently enrolled in English 9. Students must be reading at least two grade levels below 9<sup>th</sup> grade. Students must score at a below or Far Below Basic level (or < 300) on the CST and/or currently testing at the intermediate and early advanced levels of the CELDT. Other assessments to be considered include a student's Scholastic Reading Inventory Lexile score as well as English Language Arts District Benchmark assessments.

DHS Graduation Requirement: Elective

UC/CSU approved course: No

### **Course Description**

Academic Reading Development 9 is a non-college preparatory elective class required for all students at the intensive intervention level (see Prerequisites) and taken concurrently with English 9. This course uses the *READ 180* instructional model, a state-approved comprehensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. These struggling readers have deficits in their understanding of the reading process and gaps in their foundational skills. *READ 180* addresses these gaps by directly addressing individual needs through instructional software, high-interest literature, and direct instruction in reading skills. It is designed to help students successfully pass the English Language Arts portion of the CAHSEE

## **Academic Reading Development 10**

Year: 10

Prerequisite: Students must be concurrently enrolled in English 10. Students must be reading at least two grade levels below 10<sup>th</sup> grade. Students must score at a Below or Far Below Basic level (or < 300) on the CST and/or currently testing at the intermediate and early advanced levels of the CELDT. Other assessments to be considered include a student's Scholastic Reading Inventory Lexile score as well as English Language Arts District Benchmark assessments.

DHS Graduation Requirement: Elective

UC/CSU approved course: No

### **Course Description**

Academic Reading Development 10 is a non-college preparatory elective class required for all students at the intensive intervention level (see Prerequisites) and taken concurrently with English 10. This course uses the *READ 180* instructional model, a state-approved comprehensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. These struggling readers have deficits in their understanding of the reading process and gaps in their foundational skills. *READ 180* addresses these gaps by directly addressing individual needs through instructional software, high-interest literature, and direct instruction in reading skills. It is designed to help students successfully pass the English Language Arts portion of the CAHSEE.

## **ACADEMIES**

*Note: All academies require a two-year commitment to the programs which are designed to cover 11th and 12th grade English and history curriculum in alternate years. Space in academies is limited and entry cannot be guaranteed.*

### **Arts & Design Academy (English 11/12, US History, Civics/Economics, Applied Chemistry/Physics)**

Year: 11/12 (two-year program)

Prerequisite: Interest in the arts; B or better in Geometry desirable and application DHS Graduation Requirement: English, Civics/Economics, science, US History

UC/CSU approved course: Yes (a, b, d, g)

#### **Course Description**

The Arts & Design Academy is a two-year integrated program that includes English, History, Science, and related electives. The course is comprised of approximately 60 juniors and seniors whose core subjects are taught in a hands-on, challenging, and creative way. Guest speakers and field trips related to arts and design enhance the curriculum. Year A focuses on: Arts & Design English (12th grade standards), Arts & Design Civics/Economics (12th grade standards), and Arts & Design Physics. Year B focuses on: American English (11th grade standards), U.S. History (11th grade standards), and Arts & Design Applied Chemistry

#### **Science Curriculum**

**A&D Physics:** While focusing on basic Newtonian Mechanics, Statics, Wave Mechanics, Optics, and other important topics, the emphasis in this college preparatory Physics course is on matters that affect or interest those in the visual and performing arts, and those interested in design. This project driven course includes a Motion Project, Themed Egg Drop, Earthquake Resistant Tower Project, Musical Instrument Project and more.

**A&D Applied Chemistry:** This college preparatory Chemistry course covers the Science of Materials and answers questions about why and how things are designed and what choices are made in the materials of design. The curriculum is separate from the regularly offered Chemistry curriculum and can be taken either in addition to or instead of the other Chemistry offerings. Many hands-on projects will make this course an exciting one for anyone interested in Arts and Design.

#### **Class Requirements**

Interest in arts and design and creative opportunities, B or higher in Algebra, Biology, commitment to a two-year program with the same three core area teachers, whole-academy community service project, Forum attendance (once a month), progressive and positive attitude.

### **AGI Academy (English 11/12, US History, Civics/Economics, Physiology/ROP Animal Care)**

Year: 11/12 (two year program)

Prerequisite: Students must be enrolled in an agriculture or industrial arts class and application

DHS Graduation Requirement: English, Civics/Economics, US History

UC/CSU approved course: Yes (a, b, g)

## **Course Description**

**English 11 and 12** are standards-based courses emphasizing composition and communication. The AGI Academy will add another component to this course, which is a close working relationship with three of your teachers, who will keep track of your progress and share that information on a regular basis with their colleagues. Several units are being planned to supplement major projects and units in your elective courses.

US History is a study of the major turning points in American history in the 20th century. Students will consider the social problems of our time and trace their causes in historical events. An emphasis is placed on the agrarian foundation of the United States.

In Economics, students will learn to make reasoned decisions on economic issues. Perfect competition, agricultural cooperatives, commodity markets will be emphasized. Civics will instill a deeper understanding of the institutions of American government with an emphasis on legislation that affects agriculture and world trade.

**AGI Physiology** is a year-long college preparatory course that meets the UC/CSU requirements for laboratory science. The course is designed to familiarize 11<sup>th</sup> and 12<sup>th</sup> grade Agriculture and Industrial Trades (AGI) Academy students with the anatomy (structure) and physiology (function) of the mammalian body. All major organ systems are covered; however, emphasis is placed on the integumentary, skeletal, muscular, cardiovascular, nervous, and digestive systems. Although students primarily learn human anatomy and physiology, a comparative anatomical approach is integrated to enrich the study of the relationship between form and function. A strong background is provided for those students who wish to pursue further study of anatomy and physiology in college or vocational school programs. The study of physiology is beneficial for students interested in pursuing general medicine, veterinary medicine, sports medicine, nursing, physical therapy, dentistry, and other related fields. AGI Physiology students learn the course content by actively participating in laboratory activities, individual and group activities, dissections, discussions, lectures, field trips, presentations, literacy activities, computer lab activities, research projects, study sessions, and homework assignments. Anatomical studies will be enhanced by extensive laboratory activities and animal dissections. In accordance with the UC/CSU laboratory science notation requirements, approximately 20% of class time is spent on laboratory work. AGI Physiology requires homework almost daily. Literacy skills are emphasized across the science curriculum.

**ROP Companion Animal Care and Management** is a year-long college preparatory class that will meet the UC/CSU requirements for elective courses. This course is designed to acquaint 11<sup>th</sup> and 12<sup>th</sup> grade Agriculture and Industrial Trades (AGI) Academy students (and non-academy students with instructor approval) with the many and varied issues that surround the management and production of captive companion animals. Students will be presented with theoretical and practical aspects of anatomy, physiology, genetics, nutrition, reproduction, biology, behavior, health, economics, and management of animals generally considered human companions. Additionally, students will be presented with a factual overview of the pet and companion animal industry. A strong background is provided for those students who wish to pursue further study of animal science and/or veterinary medicine in college or vocational school programs. The study of the companion animal industry is also beneficial for students with an interest in animal-related business ventures. Students will learn the course content by actively participating in laboratory activities, individual and group activities, dissections, discussions, lectures, field trips, presentations, literacy activities, computer lab activities, research projects, study sessions, and homework assignments. Companion animal studies will be enhanced with laboratory activities and animal dissections. Companion Animal Care and Management requires homework almost daily. Literacy skills are emphasized across the science curriculum.

## **Class Requirements**

During the fall semester students compile a portfolio of essays, applications, recommendation letters, etc. focused on self-exploration of influences, values, college/career plans, and long-term goals. Second semester includes analytical essays based upon films and novels, as well as the study of archetypal characters, and the media. Students are also expected to conduct research, listen to lectures and engage in debates

## **Public Service Academy (English 11/12, US History, Civics/Economics)**

Year: 11/12 (two year program)

Prerequisite: Passing grade in English and World History and application

DHS Graduation Requirement: English, Civics/Economics, US History

## **Course Description**

Public Service Academy English, US History, and Civics/Economics are integrated courses meeting the A-G requirements and the California state standards. In the eleventh grade curriculum, students study major literary movements and read a survey of American literature from the Puritan influence through the present. English units are aligned both chronologically and thematically with US History in which students study the emergence of modern America through social, political, and economic change. In the twelfth grade curriculum, students compile a post-secondary writing portfolio and read a variety of multi-cultural literature with a focus on literary archetypes. Students also study a comprehensive overview of political and economic systems with an emphasis on the reading and writing of expository prose. The Public Service Academy curriculum is augmented by a public service career component including guest speakers, field trips, job-shadowing, and community service.

## **Class Requirements**

Students are expected to complete daily assignments as well as regularly turn in homework and finish nightly reading. Students must complete ten hours of public service per semester through class projects and individual volunteer work. Students will participate in job-shadowing, fund-raisers, field trips, and other class projects.

## **Instructional Materials**

Texts: *The American Odyssey*, Prentice Hall's *The American Experience*, Fitzgerald's *The Great Gatsby*, Salinger's *The Catcher in the Rye*, Miller's *The Crucible*, Miller's *Death of a Salesman*, Tan's *The Joy Luck Club*, Hurston's *Their Eyes Were Watching Go*  
Supplementary materials: Newspaper and magazine editorials, political cartoons, professional topical essays, films, and public service-related/thematically relevant novels

# **HISTORY/SOCIAL SCIENCE**

## **World History**

Year: 10

Prerequisite: 10<sup>th</sup> grade status

DHS Grad requirement: Social Science

UC/CSU approved course: Yes (a)

## **Course Description**

In this yearlong course, students will study major turning points that shaped the modern world, from the late eighteenth century through the present, including the causes and course of the two world wars. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. They extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Students develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students consider multiple accounts of events in order to understand international relations for a variety of perspectives.

## **Class Requirements**

Students are expected to listen to lectures, complete daily assignments or projects and participate in class discussions.

## **Sheltered World History**

Prerequisite: Students must have risen to the intermediate level of English language development as determined by the ELD instructor.

DHS Grad requirement: Social Science

UC/CSU approved course: Yes (a)

## **Course Description**

Sheltered World History is designed to meet the special needs of students who are at an intermediate level of English as a Second Language. The course is taught in English and is designed to teach academic skills as well as content. The content of this course includes studying the major turning points that have shaped the modern world from the late eighteenth century through the present, including the causes and course of the two world wars. This course is academically demanding and fulfills the graduation requirement for World History.

## **Class Requirements**

Students are expected to complete daily assignments or projects, participate in class discussions and work to improve their skills.

## **US History**

*This course is also offered in Sheltered. This course is also offered within the Agricultural and Industrial Arts, Arts and Design and Public Service Academies, on alternate years.*

Year 11

Prerequisite: 11<sup>th</sup> grade status

DHS Graduation Requirement: Social Science

UC/CSU approved course: Yes (a)

## **Course Description**

United States History is a study of the major turning points in US history in the twentieth century. Connecting with students' understandings of the nation's foundations and concepts developed in World History, the course examines political, social, economic and cultural developments. A wide variety of primary and secondary sources are used.

## **Class Requirements**

Students are expected to participate in a variety of activities, including listening to lectures, note-taking, reading, working in pairs and small groups, writing both informal and formal pieces and giving presentations. A significant portion of this work will be done outside of class as homework. Students will complete a book project in the fall and a research paper in the spring.

## **US History Honors**

Year: 11

Prerequisite: Application, teacher recommendation and placement test

DHS Graduation Requirement: Social Science

UC/CSU approved course: Yes (a)

### **Course Description**

United States History is an honors weighted study of the major turning points in US history in the twentieth century. Connecting with students' understandings of the nation's foundations and concepts developed in World History, the course examines political, social, economic and cultural developments. A wide variety of primary and secondary sources are used. The coursework is more rigorous and the scope of study deeper than in the mainstream course.

### **Class Requirements**

Students are expected to participate in a variety of activities, including listening to lectures, note-taking, reading, working in pairs and small groups, writing both informal and formal pieces and giving presentations. A significant portion of this work will be done outside of class as homework. Students will complete a book project in the fall and a research paper in the spring. In addition to the mainstream curriculum, students will read three additional books.

## **Civics**

*This course is also offered within the Agricultural and Industrial Arts, Arts and Design and Public Service Academies, on alternate years.*

Year: 12

Prerequisite: 12<sup>th</sup> grade status

DHS Grad Requirement: Social Science

UC/CSU approved course: Yes (a)

### **Course Description**

In this course, students apply knowledge gained in previous years of study to pursue a deeper understanding of the institutions of American government. In addition, they will compare the different systems of government in the world today. The course will prepare students to vote, to reflection the responsibilities of citizenship and to participate in community activities.

### **Class Requirements**

Students are expected to listen to lectures, complete assignments and projects, engage in debates and write essays. The district also requires 10 hours of political and community service, facilitated through this course. The service is a class requirement.

## **Sheltered Civics**

Prerequisite: Students must have risen to the intermediate level of English language development as determined by the ELD instructor.

DHS Grad requirement: Social Science

UC/CSU approved course: Yes (a)

### **Course Description**

Sheltered Civics is designed to meet the special needs of students who are at an intermediate level of English language development. The course is taught in English and is designed to teach academic skills as well as content. In this course, students apply knowledge gained in previous years of study to pursue a deeper understanding of the institutions of the American government. In addition, they will compare the different systems of government in the world today. The course will prepare students to vote, to reflect on the responsibilities of citizenship and to participate in community activities.

### **Class Requirements**

Students are expected to complete daily assignments or projects, participate in class discussions and work to improve their skills. The district also requires 10 hours of political and community service, facilitated through this course. The service is a class requirement.

## **Economics**

*This course is also offered within the Agricultural and Industrial Arts, Arts and Design and Public Service Academies, on alternate years.*

Year: 12

Prerequisite: 12<sup>th</sup> grade status

DHS Grad Requirement: Social Science

UC/CSU approved course: Yes (g)

### **Course Description**

In this one-semester course, students will gain an understanding of the economic problems and institutions of the nation and world in which they live. They will learn to make reasoned decisions on economic issues. This is primarily a course in social science-intended to enrich students' understanding of the operations and institutions of economic systems rather than a course in household budgeting or business management.

### **Class Requirements**

Students are expected to listen to lectures, complete daily assignments or projects and participate in class discussions. In addition, the district also requires 10 hours of political and community service, facilitated through this course. The service is a class requirement.

### **Sheltered Economics**

Prerequisite: Students must have risen to the intermediate level of English language development as determined by the ELD instructor.

DHS Grad requirement: Social Science

UC/CSU approved course: Yes (g)

### **Course Description**

Sheltered Economics is designed to meet the special needs of students who are at an intermediate level of English as a second language. The course is taught in English and is designed to teach academic skills as well as content. In this one-semester course, students will gain an understanding of the economic problems and institutions of the nation and world in which they live. They will learn to make reasoned decisions on economic issues. This is primarily a course in social science-intended to enrich students' understanding of operations and institutions of economic systems rather than a course in household budgeting or business management.

### **AP US Government and Politics**

Prerequisite: It is strongly recommended that students have a B in US History and English 11 or a teacher recommendation.

DHS Graduation Requirement: Social Science

(including civics/econ requirement)

UC/CSU approved course: Yes (a, g)

### **Course Description**

This semester course is an honors weighted study of the forces that shape and influence US government. Political parties, pressure groups, propaganda and the role of the citizen will be considered in relation to the legislative process. Special attention will be given to how citizens can constructively affect contemporary society. Economics in spring semester is non-weighted.

### **Class Requirement**

Extensive reading and writing will be required. Students are expected to be in class every day. Students will be encouraged to take AP US Government and Politics exam in May.

## **MATHEMATICS**

### **Pre-Algebra**

Note: (This course is also offered in Sheltered)

Year: 9- 11

Prerequisite: None

DHS Graduation Requirement: Math

UC/CSU approved course: No

### **Course Description**

This course is a precursor to Algebra 1. Freshman will be enrolled in separate classes with a student-teacher ratio of 20-1. Students in grades 10-12 are enrolled in classes with a higher student-teacher ratio. Students closely follow the Algebra 1 curriculum but on a more basic skills level. All of the Pre-Algebra skills will be continued in Algebra 1. Students will study data and how to organize, display and interpret different data. Graphing, integer operations, and area and perimeter are continuously developed over the year. Students will review fraction, decimal, and percent operations and apply them algebraically. Algebraic skills such as order of operations, distributive property, combining like terms, writing equations and solving proportions are introduced and applied. This course fulfills one year of the high school math requirement, but does not count towards the UC/CSU a-g math requirements.

### **Class Requirement**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder, pencil, colored pencils, ruler, paper, graph paper, and a scientific calculator.

### **Pre-Algebra Support**

Year: 9-11

Prerequisite: Teacher Recommendation

DHS Graduation Requirement: Elective Credit  
UC/CSU approved course: No

### **Course Description**

This course is taken concurrently with the Pre-Algebra class and its curriculum allows for extra practice, mastery of skills, and a support for their mathematics class. Students closely follow the Pre-Algebra curriculum using the supplemental worksheets from the textbook company that are not used on a daily basis in the regular Pre-Algebra class. Study skills will also be addressed on a regular basis. All of the pre-algebra skills learned will be continued in Algebra I. Students will study data and how to organize, display and interpret different data. Graphing, integer operations, and area and perimeter are continuously developed over the year. Students will review fraction, decimal and percent operations and apply them algebraically. Algebraic skills such as order of operations, distributive property, combining like terms, writing equations and solving proportions are introduced and applied. This course only fulfills one year of elective credit, it does NOT count towards the UC/CSU a-g math requirement, nor does it count for math credit. This course is repeatable for credit to a maximum of 20 credits.

### **Class Requirement**

Homework is expected to be completed each day. Materials needed for the class are: Binder; Pencil; Color Pencils; Ruler; Paper; Graph Paper; and a Scientific Calculator.

### **Algebra Readiness**

Year: 9-10

Prerequisite: Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: No

### **Course Description**

This course is a precursor to Algebra I. Students closely follow the Algebra I curriculum but on a more basic skills level. All of the pre-algebra skills learned will be continued in Algebra I. Students will study data and how to organize, display and interpret different data. Graphing, integer operations, and area and perimeter are continuously developed over the year. Students will review fraction, decimal and percent operations and apply them algebraically. Algebraic skills such as order of operations, distributive property, combining like terms, writing equations and solving proportions are introduced and applied. A student needs a grade of C or better in Algebra Readiness in order to be prepared for Algebra. This course fulfills one year of the high school math requirement, but does NOT count towards the UC/CSU a-g math requirement. This course is repeatable for credit to a maximum of 20 credits

### **Basic Algebra**

Year: 12

Prerequisite: unfulfilled Algebra 1 requirement

DHS Graduation requirement: Math

UC/CSU approved course: No

### **Course Description**

Basic Algebra is a yearlong course designed for seniors who have not yet met state high school Algebra graduation requirement. It fulfills one year of high school graduation requirement but does not fulfill the UC/CSU a-g math requirement. This course covers all standard Algebra 1 topics but on a more basic level than Algebra 1.

### **Class Requirement**

Students and their parents are expected to sign and fulfill a grading contract for this course at the beginning of the year. This contract has the following 3 sets of expectations in order to receive credit for the course.

a) Participation: Students must be present and participating in class at least 80% of the time

b) Classwork/Homework: Students must complete at least 80% of all assigned work. Assignments will be graded for both accuracy and completeness.

c) Tests: Students must pass all algebra standards tests with at least 60% accuracy. Students will be given multiple opportunities to pass each test.

Successful completion of this course fulfills the state Algebra I requirement for high school graduation. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a scientific calculator.

### **Algebra 1**

*Note: (This course is also offered in Sheltered)*

Year: 9-12

Prerequisite: C or better in Pre-Algebra or Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

Algebra I is a year long course offered to students in grades 9-12. Freshmen will be enrolled in separate classes with a student-teacher ratio of 20-1. Students in grades 10-12 are enrolled in classes with a higher student-teacher ratio. This course covers all of the standard Algebra I topics, including exponents and exponential notation, patterns and graphs, writing, graphing and solving equations, ratios, systems of linear and nonlinear equations, area, slope, the Pythagorean Theorem, and the Quadratic Formula. This course fulfills one year of the CSU/UC a-g math requirement. It may be repeated one time for high school math credit as long as the student earns a higher grade the second time. A grade of C or better is required in order to enroll in Geometry the following year.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are, binder; pencil; color pencils; ruler; paper; graph paper; and a scientific calculator.

## **Algebra I Support**

Year: 9-11

Prerequisite: Teacher Recommendation

DHS Graduation Requirement: Elective Credit

UC/CSU approved course: No

### **Course Description**

This course is taken concurrently with the Algebra I class and its curriculum allows for extra practice, mastery of skills, and a support for their mathematics class. Students closely follow the Algebra I curriculum using the supplemental worksheets from the textbook company that are not used on a daily basis in the regular Algebra I class. Study skills will also be addressed on a regular basis. This course covers all of the standard Algebra I topics, including exponents and exponential notation, patterns and graphs, writing, graphing and solving equations, ratios, the quadratic formula, systems of linear and nonlinear equations, area, slope, the Pythagorean Theorem, and the Quadratic Formula. This course only fulfills one year of elective credit, it does NOT count towards the UC/CSU a-g math requirement, nor does it count for math credit. This course is repeatable for credit to a maximum of 20 credits.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials needed for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a scientific calculator.

## **Consumer Math**

Year: 11-12

Prerequisite: D or better in Algebra I

DHS Graduation Requirement: Math

UC/CSU approved course: No

### **Course Description**

Students who have fulfilled their high school Algebra graduation requirement but need another year of credits may enroll in Consumer Math. Material will reinforce the mathematical concepts presented in Pre-Algebra and Algebra through real world applications. The eight mathematical strands of number, measurement, geometry, patterns and functions, statistics and probability, logic, algebra and discrete mathematics may be covered in relationship to the following real world topics: pricing goods, calculator use, payroll/wages, budgeting, catalog shopping, data gathering, probability of games, income taxes, buying a car, insurance, checking and savings accounts, installment buying, visual perspective, measurement, maps and trip planning. Consumer Math fulfills one year of the high school math requirement but does NOT meet UC/CSU a-g math requirement.

### **Class Requirement**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a scientific calculator.

## **Geometry**

Year: 9-12

Prerequisite: C or better in Algebra I or Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

Geometry is a year long course offered to students in grades 9-12. Freshmen will be enrolled in separate classes with a student-teacher ratio of 20-1. Students in grades 10-12 are enrolled in classes with a higher student-teacher ratio. Students earning an A or a B will be eligible for Algebra II/Trigonometry while students earning a C or a D will either re-take Geometry or take Intermediate Algebra. Geometry satisfies the UC/CSU a-g second year math requirement. The course will spiral topics from both Geometry and Algebra I. Perimeter, area and volume of geometric figures and how they relate to congruent and similar figures are covered. Proofs, including logical argumentation, are introduced. Various forms of problem solving are practiced and these strategies are then used to develop properties of angles, lines polygons and circles. Spatial visualization of 3-D figures includes isometric drawing techniques. Students learn right triangle trigonometric ratios and the law of sines in order to solve triangle problems. Geometric probability is introduced as

another model to help students calculate probabilities.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a scientific calculator.

## **Geometry Bridge**

Year: 10-12

Prerequisite: Second Semester Algebra I Grade of D; Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: No

### **Course Description**

Geometry Bridge is a year long course offered to students in grades 10-12. Students in grades 10-12 are enrolled in classes with a student-teacher ratio of 30-1. This course covers a quick review of topics covered in the 1st semester of Algebra I and a more in depth coverage of topics covered in the second semester of Algebra I, including but not limited to exponents and exponential notation, patterns and graphs, writing, graphing and solving equations, ratios, systems of linear and nonlinear equations, area, slope, the Pythagorean Theorem, and the Quadratic Formula. The remainder of the second semester will include a preview of topics found in the Geometry curriculum that may include perimeter, area and volume of geometric figures and how they relate to congruent and similar figures, proofs, including logical argumentation, various forms of problem solving, properties of angles, lines polygons and circles, spatial visualization of 3-D figures that includes isometric drawing techniques, right triangle trigonometric ratios and the law of sines in order to solve triangle problems, and geometric probability. Successful completion of both semesters of this year long prepares students to tackle the Geometry curriculum but it does NOT fulfill the UC/CSU a-g math requirement. A grade of "C" or better is required in order to enroll in Geometry the following year.

### **Class Requirements**

Homework is expected to be completed each day. Materials recommended for the class are: Binder; Pencil; Color Pencils; Ruler; Paper; Graph Paper; and a Scientific Calculator

## **Intermediate Algebra**

Year: 9-12

Prerequisite: D or better in Geometry

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

Intermediate Algebra is designed for students who have completed Algebra I and Geometry but who have not yet mastered these skills well enough to take Algebra II/Trigonometry. This course will expand on the topics in Algebra I and Geometry, and introduces the standard Algebra II topics. It includes a unit on trigonometry and covers the concepts of the real number system and linear equations, as well as inequalities in one variable. Operations with rational exponents and polynomials will be covered, as will functions including exponential and logarithmic functions. The quadratic formula will be reviewed, as will solving systems of equations in more than one variable. This course satisfies the third year UC/CSU a-g math requirement.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a graphing calculator. Limited supplies of graphing calculators are available for checkout.

## **Algebra II / Trigonometry**

Year: 9-12

Prerequisite: B or better in Geometry; B or better in Intermediate Algebra or Teacher recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

Algebra II/Trigonometry is a year long course making up the third year of the college preparatory sequence. It meets the requirements for the third year UC/CSU a-g math requirement. The class covers topics such as solving equations and inequalities, polynomials, real and complex numbers, exponents, logarithms, rational expressions, and fundamental counting principles. Exploration of general equations and parent equations of parabolas, cubics, roots, hyperbolas, exponentials, logarithms, sleeping parabolas, circles, sine, cosine, and tangent lead to a common understanding about the "a", "b", "h" and "k" variables in the general equations of each function or relation. Other topics include the unit circle, radian measurement, trigonometric ratios, law of sines, law of cosines, and the identity  $\cos^2 x + \sin^2 x = 1$ .

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a graphing calculator. Limited supplies of graphing calculators are available for check out.

## **Pre-Calculus**

Year: 10-12

Prerequisite: C or better in Algebra II/Trig

Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

This year long course will cover all of the mathematical topics necessary to prepare a student to be successful in a rigorous college level calculus course. The course will include the study of the following Pre-Calculus topics: polynomial functions, limits of sequences and series, exponential and logarithmic functions, circular functions and their inverses, trigonometry and its applications, complex numbers, vectors and analytic geometry and an introduction to differential and integral calculus and their applications.

## **Statistics**

Year: 12

DHS Graduation Requirement: Math

Prerequisite: Intermediate Algebra or Algebra II or Teacher recommendation

UC/CSU approved course: Yes (c)

### **Course Description**

This course is designed for seniors. Since many college majors require a probability and statistics course, this class will introduce the standard topics in probability, statistics and data gathering and will give students a solid foundation in the concepts necessary to be successful in a college level course. Graphing calculators will be used daily. This course meets the requirements of a UC/CSU a-g math elective course.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework assignments each night. Materials recommended for the class are: binder; pencil; color pencils; ruler; paper; graph paper; and a graphing calculator. Limited supplies of Graphing Calculators are available for checkout.

## **AP Calculus AB**

Year: 11-12

Prerequisite: B in Pre-Calculus or Teacher Recommendation

DHS Graduation Requirement: Math

UC/CSU approved course: Yes (c)

### **Course Description**

Calculus AB is designed as a rigorous, full-year, college-level course in the calculus of functions of one variable. This course covers limits and properties of functions, differential calculus of elementary functions with applications, and integral calculus with applications.

### **Class Requirements**

Students are expected to complete a summer assignment prior to the first class period in the fall. Students are expected to complete daily assignments in class as well as homework assignments each night. A Problem of the Week is assigned and completed each week. There is a \$20 book donation for the AP preparation text used in the class. Students are encouraged to purchase a graphing calculator for use in class and on assignments. Students are encouraged to take the AP Calculus AB exam in May.

# **SCIENCE**

*Note: (Science courses may not be repeated for credit)  
Also see agricultural science classes listed under Agriculture*

## **Sheltered Biology**

Year: 10-12

Prerequisite: This course is designed for English Language Learners at the early intermediate to intermediate levels.

DHS Graduation Requirement: Life Science

UC/CSU: Yes (d)

### **Course Description**

Sheltered Biology is a yearlong course that utilizes Specially Designed Academic Instruction in English (SDAIE) to cover the California State standards in biological sciences. The course covers such topics as the nature of science, cell biology, genetics, evolution, ecology, and human body systems. The overall goal of this course is to provide English Language learners with the opportunity to learn biological concepts and ideas, while improving their English skills. This course fulfills the Dixon High School graduation requirement for life science. Literacy skills are emphasized across the science curriculum.

### **Biology**

Year: 9-12

Prerequisite: This is a sophomore class. Freshmen enrolled in Geometry may also be admitted.

DHS Graduation Requirement: Life Science

UC/CSU: Yes (d)

### **Course Description**

Biology is a heterogeneous, science-based class aligned with the current state framework. Biology is designed to introduce the student to the study of living things. The first semester deals with the scientific method, cells and their functions, and genetics. The second semester deals

### **Class Requirements**

Students are expected to adhere to safety laboratory procedures, complete daily assignments in class as well as regularly turn in homework. Students must provide a notebook with organizational divider tabs, paper, pens, pencils, colored pencils, and a calculator. Passing Biology fulfills a Life Science graduation requirement.

### **Earth Science**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Physical Science

UC/CSU: No

### **Course Description**

Earth Science is a freshman-level, non-UC approved course designed to introduce students to physics, chemistry, and earth science through an earth science focused curriculum. Students engage in hands-on activities and problem solving tasks that are aimed at mastery of important state curriculum standards. Literacy skills are emphasized across the science curriculum.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as homework items. Students must successfully complete laboratory tasks including formulation of hypotheses, careful measurement and data recording, careful observation, integration of scientific concepts, and formulation of conclusions.

### **AGI Companion Animal Care & Management**

*This course is offered as part of a two-year academy program. See the description of this course under section entitled "Academies."*

### **AGI Physiology**

*This course is offered as part of a two-year academy program. See the description of this course under section entitled "Academies."*

### **Physiology**

Year: 11-12

Prerequisite: Biology or Earth Physical Science

DHS Graduation Requirement: Life Science

UC/CSU: Yes (d)

### **Course Description**

Physiology is a year-long college preparatory course that meets the UC/CSU requirements for laboratory science. The course is designed to familiarize 11<sup>th</sup> and 12<sup>th</sup> grade students with the anatomy (structure) and physiology (function) of the human body. All major organ systems are covered; however, emphasis is placed on the integumentary, skeletal, muscular, cardiovascular, nervous, and digestive systems. Although students primarily learn human anatomy and physiology, a comparative anatomical approach is integrated to enrich the study of the relationship between form and function. A strong background is provided for those students who wish to pursue further study of anatomy and physiology in college or vocational school programs. The study of physiology is beneficial for students interested in pursuing general medicine, veterinary medicine, sports medicine, nursing, physical therapy, dentistry, and other related fields. Physiology students learn the course content by actively participating in laboratory activities, individual and group activities, dissections, discussions, lectures, field trips, presentations, literacy activities, computer lab activities,

research projects, study sessions, and homework assignments. Anatomical studies will be enhanced by extensive laboratory activities and animal dissections. In accordance with the UC/CSU laboratory science notation requirements, approximately 20% of class time is spent on laboratory work. Physiology requires homework almost daily. Literacy skills are emphasized across the science curriculum.

### **Class Requirements**

In accordance with the UC/CSU laboratory science notation requirements, approximately 20% of class time is spent on laboratory work. Physiology requires homework almost daily and will prepare students for the next day's lesson. Students are expected to come to class prepared. See pre-requisites as listed above.

## **A&D Applied Chemistry**

*This course is offered as part of a two-year academy program. See the description of this course under section entitled "Academies."*

### **Chemistry**

Year: 10-12

Prerequisite: Students must have passed Algebra I with a C or better and 10th grade students must have received an A or B in Biology and be in Geometry or Algebra 2

DHS Graduation Requirement: Physical Science

UC/CSU: Yes (d)

### **Course Description**

Chemistry is a UC approved laboratory science designed to introduce the student to the subject of chemistry. The course introduces the concepts of measurement & unit analysis, atomic structure, the periodic table, nuclear reactions, naming compounds, chemical equations, stoichiometry, thermodynamics, molecular structure & bonding, solutions, electron configurations, organic chemistry, equilibria and acid/base reactions. The overall goal is to familiarize the student with the broad concepts governing chemical reactions and chemical calculations. Approximately 20% of the class time is spent on laboratory work. Literacy skills are emphasized across the science curriculum.

### **Class Requirements**

Students are expected to use safety in the lab, complete daily assignments in class as well as regularly complete homework. Weekly quizzes will be given on daily assignments. Materials recommended for class are a notebook with organizational divider tabs, paper, pens, pencils, ruler, and a scientific calculator.

## **Honors Chemistry**

Year: 10-12

Prerequisite: Biology with an A for sophomores. Placement test is required. Concurrent enrollment in Algebra 2 or higher is recommended

DHS Graduation Requirement: Physical Science

UC/CSU: Yes (d)

### **Course Description**

Honors Chemistry is laboratory science designed to introduce the student to the subject of chemistry. The course introduces the concepts of measurement & unit analysis, atomic structure, the periodic table, nuclear reactions, naming compounds, chemical equations, stoichiometry, thermodynamics, molecular structure & bonding, solutions, electron configurations, organic chemistry, equilibria and acid/base reactions. The overall goal is to familiarize the student with the broad concepts governing chemical reactions and chemical calculations. Approximately 20% of the class time is spent on laboratory work. The Honors Chemistry course is presented at a faster pace than the regular chemistry class. This course covers more material and in greater depth so the student is expected to have good study skills. Honors students have a summer assignment that consist of the first two units covered during the school year. Literacy skills are emphasized across the science curriculum.

### **Class Requirements**

Students are expected to use safety in the lab, complete daily assignments in class as well as regularly complete homework. Weekly quizzes or tests are given. Materials recommended are a notebook with organizational divider tabs, paper, pens, pencils, ruler, and scientific calculator.

## **Physics**

Year: 11-12

Prerequisite: Passed algebra and geometry with a C and have passed Biology and Physical Science or Chemistry

DHS Graduation Requirement: Physical Science

UC/CSU: Yes (d)

### **Course Description**

Physics is a UC approved laboratory science course that covers the nature of basic things such as motion, forces, energy, matter, heat, sound, and light. The overall goal of this course is to be able to apply the knowledge of the physical universe gained in this class to the students' everyday lives. At least 20% of the time is spent on lab activities including experiments and demonstration projects.

### **Class Requirements**

Since this a UC approved laboratory course, the labs and lab reports are a significant part of the class. Homework is assigned nearly every night, and students are expected to come to class each day prepared. Students must have passed algebra and geometry with a C and be in 11<sup>th</sup> or 12<sup>th</sup> grade to take this class and have passed Biology and Physical Science or Chemistry.

### **A&D Physics**

*This course is offered as part of a two-year academy program. See the description of this course under section entitled "Academies."*

### **Honors Physics**

Year: 11-12

Prerequisite: Completion of Algebra II with a B or better, and completion of Chemistry (B or better), Environmental Science (B or better), AP Biology (C or better), or Physiology (B or better) is required.

DHS Graduation Requirement: Physical Science

UC/CSU: Yes (d)

### **Course Description**

Honors Physics is a UC approved laboratory science course designed to give students a thorough understanding of the basic concepts of physics and, by means of interesting applications, to prepare them to use physics in their own lives. This is a one-year introductory course that uses algebra and trigonometry. In this course we will deal with motion, heat, sound, light, relativity, and electricity and magnetism. Approximately 20% of the time in the class is devoted to lab work. The major difference between Honors Physics and Physics is a greater emphasis on mathematical relationships in Honors Physics.

Summer Homework: Students are expected to complete work prior to the start of school.

### **AP Biology**

Year: 11-12

Prerequisite: Biology and Chemistry with a grade of "B" or better; chemistry and math teachers' recommendations required. Entrance exam.

DHS Graduation Requirement: Life Science

UC/CSU: Yes (d)

### **Course Description**

Advanced Placement Biology is a college level biology course designed for students who wish to pursue advanced biology in high school. Course material is consistent with an introductory, college level Biology class. There are three major themes of the course: Molecules and Cells, Genetics and Evolution, Organisms and Populations. The aim of AP Biology is to provide students with conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of Biology. The class is intended for students who are contemplating a college major in a science related field or are planning to major in a field other than science and are hoping to fulfill college science requirements by taking and passing the AP Biology exam, given in the middle of May each year. All students are encouraged to take the AP exam.

### **Class Requirements**

There is extensive reading required throughout the summer months, and the class also meets at lunch every block period Thursday. Students are expected to be in class every day, and should expect at least an hour of homework every night as well as over holiday breaks.

## **FOREIGN LANGUAGE**

### **Spanish 1**

Year: 9 - 12

Prerequisite: none

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

Spanish 1 is a one-year course that teaches students to understand, speak, read, and write Spanish. Students learn Spanish vocabulary by using the Total Physical Response Storytelling (TPRS) method which teaches vocabulary using gestures and incorporating it into practical situations and stories. Students also learn about Latino culture and history. This course fulfills the fine arts/foreign language graduation requirement for Dixon High School, as well as one year of the foreign language requirements for admission to colleges and universities. If you speak Spanish at home, do not take Spanish 1.

### **Class Requirements**

Course work will consist of listening, speaking, reading, and writing activities, participating in small groups and in the class as a

whole, and using computers in the school lab. Regular attendance, class participation and good homework habits are important for success in this course.

## **Spanish 2**

Year: 9-12

Prerequisite: Spanish 1

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

Spanish 2 is a one-year course for those students who have successfully completed Spanish 1 with a grade of C or better. The course emphasizes the student's ability to communicate: to understand, speak, read, and write the language. Students practice Spanish by using practical situations and the accompanying appropriate vocabulary. They continue to explore Latino culture and history. The course uses the same methodology used in our Spanish 1 program, Total Physical Response Storytelling (TPRS). The class fulfills one year of Dixon High School's fine arts/foreign language graduation requirements as well as a second year of the foreign language requirements for admission to colleges and universities

### **Class Requirements**

Course work will consist of listening, speaking, reading, and writing activities, participating in small groups and in the class as a whole, and using computers in the school lab. Regular attendance, class participation and good homework habits are important for success in this course.

## **Spanish 3**

Year: 9-12

Prerequisite: Spanish 2

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

Spanish 3 is a one-year course for students who have completed Spanish 2 with a grade of C or better. The class is a continuation of Spanish 2 and is taught almost entirely in Spanish by using the Total Physical Response Storytelling (TPRS) method. Much of the class is devoted to the acquisition of new vocabulary by gestures, retelling and acting out of mini stories, and by creating new stories using the required vocabulary. Students will also read several culture-based novels to enhance their language skills and learn more about Latino culture. This course fulfills the fine arts/foreign language requirement for graduation from Dixon High School, as well as a third year of the foreign language requirements that is recommended for admission to colleges and universities.

### **Class Requirements**

Course work will consist of listening, speaking, reading, and writing activities, participating in small groups and in the class as a whole, and using computers in the school lab. Regular attendance, class participation and good homework habits are important for success in this course.

## **Spanish 4**

Year: 10-12

Prerequisite: Spanish 3

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

Spanish 4 is a one-year, literature-based class for students who have completed Spanish 3 with a grade of C or better. The course is conducted entirely in Spanish. Students will read, analyze, and discuss works of literature from a variety of sources. The focus of their literary study will be the entire Spanish-speaking world. In addition, further language acquisition via the Total Physical Response Storytelling (TPRS) method may be implemented. This course fulfills the fine arts/foreign language requirement for graduation from Dixon High School, as well as a fourth year of the foreign language requirements that is recommended for admission to colleges and universities.

### **Class Requirements**

Course work will consist of listening, speaking, reading, and writing activities, participating in small groups and in the class as a whole, and using computers in the school lab. Regular attendance, class participation and good homework habits are important for success in this course. Students should plan to speak only Spanish in the class.

## **Native Spanish 1**

Year: 9-10

Prerequisite: Test in 8<sup>th</sup> grade during the spring.

DHS Graduation Requirement: No

UC/CSU approved course: (pending)

### **Course Description**

Native Spanish I is designed to increase the cultural/language competency of the beginning level native Spanish students. While expanding their cultural and historical knowledge of Spanish speaking ethnic groups in the United States, students increase their listening, speaking, reading, and writing skills. The course focuses on teaching reading strategies to access content information in Spanish. Some of the goals of this course include increasing reading fluency and in depth understanding of text, participating in small groups, self monitoring reading comprehension, synthesizing and organizing information from texts and writing a variety of texts for different purposes. It is designed to meet the needs of students who are exposed to Spanish at home, understand a great deal of the spoken language, but have limited abilities to read and write the language accurately. The course is especially appropriate for ninth grade students who may feel misplaced in a Spanish 1 or 2 class, but do not have the language acquisition skills for placement in Native Spanish II.

## **Native Spanish 2**

Year: 9-12

Prerequisite: The course is for students who have some prior knowledge of Spanish. They are placed in this course via the results of the Moreno Spanish Reading Comprehension Test or the IDEA Spanish Reading and Writing Proficiency Test, Level 3.

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

This unique course is intended to help students improve their Spanish speaking, writing, and reading skills. This course will be conducted almost entirely in Spanish by using a variety of language acquisition techniques. Grammar and structure of dialectal forms will be compared with “normative” Spanish that will enable students to develop the normative Spanish proficiency. It is intended as a bridge that will enable students to develop formal academic proficiency and aims to give students the tools they need to acquire an in-depth knowledge of the Spanish language thus be able to study literature, culture and other topics at the upper level.

### **Class Requirements**

Students are expected to participate daily in class discussions and to complete all assignments in and out of class. Materials recommended are a spiral notebook with a minimum of 150 pages.

## **Native Spanish 3**

Year: 9-12

Prerequisite: The course is for students who have some prior knowledge of Spanish. They are placed in this course via the results of the Moreno Spanish Reading Comprehension Test or the IDEA Spanish Reading and Writing Proficiency Test, Level 3.

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

Native Spanish 3 is a course designed to teach advanced reading, writing, language, and vocabulary skills to fluent Spanish speakers. A variety of literary genres such as novels, dramas, and short stories are included in the class. Reading and analysis of literature are primary goals. Language arts skills include vocabulary development, composition writing, and accentuation skills. This course fulfills high school graduation skills for Foreign Language. UC/CSU approved.

### **Class Requirements**

Students are expected to participate daily in class discussions and to complete all assignments in and out of class. Materials recommended are a spiral notebook with a minimum of 150 pages.

## **Native Spanish 4**

Year: 10 - 12

Prerequisite: This course is for students in grades 10-12 who are competent Spanish readers and writers. Students must pass two semesters of Native Spanish 3 before taking Native Spanish 4.

DHS Graduation Requirement: Foreign Language

UC/CSU Approval: Yes (e)

### **Course Description**

The aim of this course is to achieve a fluent ability to communicate in Spanish, to read with minimum use of a dictionary, and to write well-organized and logically developed paragraphs and essays with a good command of grammar and vocabulary. Students gain insight into Hispanic cultures and civilizations while improving their listening, speaking, reading, and writing skills. Music, audio CDs, and videos are used to expand listening comprehension. Interpersonal speaking skills are enhanced through discussions, comprehension questions, and dramatizations. Students improve cultural awareness through historical readings, short thematic articles, and various genres: narratives, short stories, poetry, legends, and essays. Post reading activities check for basic comprehension and encourage students to analyze and discuss the readings’ plot, characters, themes, and style. Writing skills are developed using the process writing approach which trains students to plan and organize, write drafts, give and receive editing feedback before a final

draft. Students expand their social dimension by working in pairs and small groups to accomplish their objectives. For those who want to be professional interpreters/translators, or improve their career opportunities, this course is invaluable. Students are introduced to the role of the translator/interpreter, the theory and method of translation or interpretation, consecutive and simultaneous interpretation and the ethics of the profession

### **Class Requirements**

Students must keep a portfolio of all their assignments, organize it chronologically, and submit it at the end of each unit. Students are expected to participate daily in class discussions and complete all assignments in and out of class.

### **Instructional Materials**

Board approved text: *Mundo 21* by Samaniego, Rojas, Ohara, and Alarcon

Workbook: Copies are provided from workbook titled: *Cuaderno de Actividades for Mundo 21* by Samaniego, Rojas, and Alarcon

## **AP Spanish Language**

Year: 11 -12

Prerequisites: Spanish 4 with a grade of B or better; Native Spanish IV with a grade of B or better, or a strong recommendation by a teacher at Dixon High School.

DHS Graduation Requirement: Foreign Language

UC/CSU Approval: Yes (e)

### **Course Description**

In this exciting course, students have the opportunity to meet a rewarding challenge. They develop a strong command of the Spanish language, with ability to integrate language skills and synthesize written and aural materials. Students use the formal writing process, extensive interpersonal and presentational speaking and writing practice. Aural comprehension skills improve with quality, authentic, and level-appropriate audio and video recordings. They are exposed to the world of literature and current events of Spanish-speaking countries through authentic written texts, including newspaper and magazine articles, literary texts, and other non-technical writings that develop students' reading and comprehension skills. Class is conducted completely in Spanish and includes frequent writing and integration of skills with a complete review of grammatical structures. Advanced organizational and analytical strategies are taught. An array of resources is used as necessary to facilitate the learning process. A diagnostic test or other means of determining students' strengths and problem areas is done within the first two weeks of the school year in order to customize the instruction. Upon completion of the course, students will be challenged to take the AP Spanish Language Exam. Should they pass with a score of 3, 4, or 5, they will have mastered the skills and knowledge required to receive credit for an advanced level college or university Spanish language course.

## **French 1**

Year: 9 - 12

Prerequisite: None

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

French 1 is a one year course which teaches students to understand, speak, read, and write French. Students learn French by using Total Physical Response Storytelling (TPRS) which teaches vocabulary using gestures and incorporating it into practical situations and stories. Students explore the French history and culture through songs, videos, food and field trips. This course fulfills the fine arts/foreign language requirement for graduation from Dixon High School, as well as one year of the foreign language requirements that is recommended for admission to colleges and universities.

### **Class Requirements**

Students are required to do regular homework assignments and keep an organized notebook.

## **French 2**

Year: 9 - 12

Prerequisite: French 1

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

### **Course Description**

French 2 is a one year course for those students who have successfully completed French 1. The course emphasizes the student's ability to communicate: to understand, speak, read and write French. Students continue to learn vocabulary using the same methodology used in the French 1 program, Total Physical Response Storytelling (TPRS). Students study new areas of French culture and history. This course fulfills the second year of foreign language requirements for admittance to college and university.

### **Class Requirements**

Students are required to do regular homework assignments and keep an organized notebook.

### **French 3**

Year: 10 - 12

Prerequisite: French 2

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

#### **Course Description**

French 3 is a one year course for students who have successfully completed French 2. Students continue to use the TPR Storytelling methodology and do a lot of reading and writing in French. The course is taught primarily in French. Students continue to expand their knowledge of the Francophone world through songs, videos, food and field trips. This course fulfills a third year of foreign language recommended for admittance to college or university.

#### **Class Requirements**

Students are required to do regular homework assignments and keep an organized notebook.

### **French 4**

Year: 10 - 12

Prerequisite: French 3

DHS Graduation Requirement: Foreign Language

UC/CSU approved course: Yes (e)

#### **Course Description**

French 4 is a one year course for students who have successfully completed French 3. Students continue to learn more vocabulary and grammatical structures. Emphasis is on accuracy in speaking and writing. The course is taught entirely in French. Students read a lot of short stories, plays and magazines. Students continue to learn about French history and culture through songs, videos, field trips and food. This course satisfies a fourth year of foreign language recommended for admittance to college or university

#### **Class Requirements**

Students are required to do regular homework assignments which usually involve extensive reading and writing in French.

## **VISUAL and PERFORMING ARTS**

### **Drama**

Year: 9-12

Prerequisite: none

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

#### **Course Description**

The course is designed to introduce the art of the actor through performance. Through various processes each student will discover what is encompassed in the history of drama and the dramatic profession. Through reading of the textbook and scripts; writing essays and scripts; design, acting, and lecture students will have a beginning understanding of the history of drama and the dramatic profession.

#### **Class Requirements**

Students will be required to participate in class activities including one public, evening performance each semester.

### **Symphonic Band**

Year: 9-12

Prerequisite: Two years previous playing experience

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

#### **Course Description**

The Symphonic Band is Dixon High School's largest instrumental performing group. Members perform as the Symphonic Band and as the Ram Marching Band, participating in local concerts and out-of-town competitions and festivals. Members also provide entertainment at home football games. The main focus of the class throughout the year is the study and subsequent performance of band literature.

#### **Class Requirements**

Students must participate in rehearsals and performances outside the school day. Students are also expected to practice individually in preparation for tests and performances. There is a \$20 per year donation.

## **Jazz Ensemble**

Year: 9-12

Prerequisite: At least four years of playing experience on the saxophone, trumpet, trombone, guitar, bass or piano and consent of instructor.

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

### **Course Description**

The Jazz Ensemble performs both traditional and contemporary Big Band music. It performs at the high school, within the community, and at out-of-town jazz festivals. All students study jazz theory and improvisation.

### **Class Requirements**

Students must participate in performances outside the school day. Students are also expected to practice individually in preparation for tests and performances.

## **Wind Ensemble**

Year: 9-12

Prerequisite: At least four years of playing experience and consent of instructor.

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

### **Course Description**

The Wind Ensemble is Dixon High School's top instrumental performing group. Members are selected by audition from the Symphonic Band. These students perform advanced band literature as the Wind Ensemble and combine with the symphonic band class to make up the Dixon High Symphonic Band and the Ram Marching Band. The group performs in local concerts and out-of-town competitions and festivals. The main focus of the class throughout the year is the study and subsequent performance of advanced wind ensemble literature.

### **Class Requirements**

Students must participate in rehearsals and performances outside the school day. Students are also expected to practice individually in preparation for tests and performances. There is a \$20 per year donation

## **Drawing 1 & 2**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

### **Course Description**

Drawing 1-2 introduces students to the basics of the realistic drawing, composition and creative thinking. This class is designed for students with no previous experience, as well as those who have never drawn before. Vocabulary and writing projects help students analyze their work and the work of other. Students learn to draw from observation of real objects and how to add values to show form. We will view DVDs, watch demonstrations and read about great artists. The elements and principles of design are emphasized in each project. Students complete a portfolio of 20 drawings and paintings. A \$25 supply donation covers art materials for the year.

### **Class Projects**

Folder design, Contour drawing of feathers, cartoons, watercolor exercises, contour drawing of hands, perspective exercises, still-life in charcoal and pencil, reading and notes, outdoor drawings of trees, a horse, a car, digital photo project, flower in watercolor, tools-mixed media design Project, vocabulary notes, quizzes, final exam

### **Instructional Materials**

*Creating and understanding Drawings* by Gene Mittler and James Howze

Slides, DVD's, Demonstrations

Art Prints

Scholastic Magazines

### **Class Requirements**

There is a \$25 supply donation for the year

## **Drawing 3 & 4**

Year: 10-12

Prerequisite: Drawing 1/2

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

## **Course Description**

This is an advanced art class that has Drawing 1-2 as a prerequisite. Drawing 3-4 is designed for students who are interested in working on their projects outside class in addition to inside class. You will learn a great deal about the mediums of nu-pastels, tempera paint, oil pastel, and acrylic paint. You'll improve your skills in design and composition as well as become more comfortable and effective at thinking creatively. Emphasis is placed on the elements and principles of design.

## **Class Projects**

Realistic portrait in Nu-Pastel, Expressive/distorted portrait in Nu-Pastel, Figure drawing, Four Gallery Reports, High contrast painting in black acrylic paint, Landscape, Abstraction, Still-Life in Tempera Paint and Pastel, Surrealism Project, Critiques

## **Instructional Materials**

*Scholastic Magazine*, *Art in Focus* by Gene Mittler, Slides, DVD's, Art Prints

## **Class Requirements**

You need to take Drawing 1 and 2 before Drawing 3/4. There is a \$50 supply donation for the year.

## **Art Studio**

Year: 11-12

Prerequisite: Drawing 3/4

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

## **Course Description**

Students must have completed Drawing 3-4 and have a strong interest in art. Students complete advanced drawing and painting projects that are assigned. They work during a Drawing 3-4 class but are independent from the class.

## **Class Requirements**

There is a \$50 supply donation for the year.

## **Ceramics 1**

Year: 9-12

Prerequisite: none

DHS Graduation Requirement: VPA

UC/CSU: (pending)

## **Course Description**

Ceramics involves projects that are hand built from clay and those that are thrown on potters' wheels. Students learn the technical skills involved in creating beautiful sculpture as well as functional ceramic pieces. The creative process is explored as well as historic and cultural aspects.

## **Class Requirements**

A \$50 supply donation

## **Ceramics 2**

Year: 10-12

Prerequisite: Ceramics I and Instructor approval

DHS Graduation Requirement: VPA

UC/CSU: Yes (f)

## **Course Description**

Ceramics 2 students complete advanced projects using the skills learned in ceramics 1. Students will develop a personal style and produce larger and more challenging projects. They will expand their knowledge of sculpture, wheel throwing and complex hand building. The elements and principals of design will be emphasized.

## **Class Requirements**

Students are expected to do all work in class. There are a few written assignments that will be done outside of class time. Students will participate in kiln loading and unloading as well as clay recycling. Students will need a sketchbook. A \$50 supply donation.

# **CONSUMER HOME ECONOMICS**

## **Fashion Design 1**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Fine Arts

UC/CSU: No

### **Course Description**

Fashion Design I offers the student an opportunity to learn about the basics fashion and design. They learn the reasons why we wear clothes including practical, social and cultural influences. In addition to identifying fads and styles of today, we study the historical influences on what we have in our wardrobes. Students investigate the basics of color, line and design in relationship to their own personal coloring and body types. They have an introduction to textiles and textile applications. Students are given the opportunity to create a 'mannequin' of themselves upon which they will begin to practice draping techniques.

### **Class Requirements**

\$30 material donation

## **Fashion Design 2**

Year: 10-12

Prerequisite: Fashion Design I

DHS Graduation Requirement: Fine Arts

UC/CSU: Yes (f) Fashion Design II only

### **Course Description**

In the second year, students continue on their historical journey through the world of clothing. More emphasis is placed on the design and fabrication of clothing - seeing their creations take shape from their original sketch to a completed garment draped on their mannequin. Careers in the fashion industry are highlighted in this semester. Costume design and construction may be emphasized in one class period.

### **Class Requirements**

\$30 material donation

## **Introduction to Foods**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective

UC/CSU: no

### **Course Description**

This course introduces students to the basic techniques used in food preparation and presentation. The first semester concentrates on technique and personal food preparation. The second semester blossoms to expose students to preparation and presentation of food for others and foods from around the world.

### **Class Requirements**

\$30 per semester material donation

## **Advanced Foods**

Year: 10-12

Prerequisite: Intro to Foods and instructor approval

DHS Graduation Requirement: Vocational Elective

UC/CSU: no

### **Course Description**

This class gives students hands on culinary experience that develops personal skills, culinary expertise and training that transitions from school to any food service career.

### **Course Requirements**

Successful completion of Intro to Foods with the instructor's approval. In addition to having kitchen 'savvy' the student must be reliable, self-motivated and responsible. \$30 per semester material donation.

# **INDUSTRIAL ARTS**

## **Architectural Design**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective/ Fine Arts for DHS only

UC/CSU: No

### **Course Description**

Practice drawing a complete set of plans for a single family dwelling in accordance with local building regulations. This class includes an introduction into the Title 24 energy requirements.

### **Class Requirements**

Materials recommended are basic drafting instruments, paper and scaled building materials.

## **Residential Construction 1**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective

UC/CSU: no

### **Course Description**

This course is the study of woodworking and the woodworking industry, including sources of lumber, how projects are designed and safely produced using hand tools and power equipment.

### **Class Requirements**

Materials recommended are safety glasses, and a combination lock.

## **Advanced Residential Construction 2**

Year: 10-12

Prerequisite: Must Pass Res Construction 1 with a "C" or better.

DHS Graduation Requirement: Vocational Elective

UC/CSU: no

### **Course Description**

This competency-based course prepares students for entry positions in the construction and building trades industry (Industrial engineering technology career pathway.) Students will be provided with an in-depth exposure to the residential, commercial and industrial building trades including carpentry, plumbing and pipe fitting, and electrical trades. The students who meet the proficiencies of the course will be prepared to join state-approved apprenticeships programs, pursue additional craft training, and/or gain entry-level employment.

### **Class Requirements**

Materials recommended are safety glasses, and a combination lock.

# **AGRICULTURE**

## **Earth Science in Agriculture**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Physical Science

UC/CSU: No (pending)

### **Course Description**

Students in this course will learn life science and natural resources through modern agriculture. Students will study plant science through basic botany, agronomy, and pomology, animal science through domestic farm animals and North American wildlife. Students will also study current issues affecting agriculture, wildlife and the environment.

### **Class Requirements**

Participation in the FFA organization and the Supervised Agricultural Experience Program (SAEP) are required.

## **Agricultural Biology**

Year: 10-12

Prerequisite: Agricultural Science I

DHS Graduation Requirement: Life Science

UC/CSU approved course: Yes (d)

### **Course Description**

This course is a continuation of Agricultural Science I. It is a study of physical science through modern agriculture. Students will learn principles of physical science through the study of soils, agricultural chemicals, irrigation, electricity, hydraulics, internal combustion engines, agricultural engineering, and advanced agricultural technology. This course meets high school science graduation requirements if taken with Ag Science I.

### **Class Requirements**

Students are expected to complete daily assignments in class as well as assigned homework. Participation in the FFA Organization and the Supervised Agricultural Experience Program (SAEP) are required.

## **ROP Wildlife Art and Taxidermy**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective, fine arts (for DHS only)

UC/CSU approved course: no

### **Course Description**

The course will focus on both the artistic and practical aspects of wildlife art and taxidermy. Students will learn how to collect, handle, and store biological specimens for the preservation and mounting of life-like projects. Course includes measuring, skinning, fleshing, tanning, and most importantly mounting. Students will mount birds, life-size mammals, game heads, fish, reptiles, and amphibians. The course teaches a step by step instruction process with group projects as well as allowing individuals to work on their own independent projects. Students will learn finish work including air brushing techniques. The course will also include novelty projects, wood carving, and artificial reproductions.

### **Class Requirements**

Students must be willing to spend extra time as needed to complete required mounts and art work. Students are required to display their work or projects at the school art fair and the Dixon May Fair. Participation in the FFA Organization and the Supervised Agricultural Experience program (SAEP) are required.

## **ROP Agricultural Practices**

Year: 10-12

Prerequisite: Students must be 16 years old

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: No

### **Course Description**

This course is designed to give students a practical background in production agriculture and a basic foundation in entry level skills needed for employment in the field of agriculture and related occupations. Students will learn to maintain, repair, and operate tractors and equipment. Students will also be involved in the seasonal production practices of the 105 acre school farm.

Students will have instruction in basic hand and power tools used in farmstead maintenance, repair, and construction. Agricultural economics will be discussed and record keeping will be applied. Students will be allowed to raise individually owned market lambs, hogs, and/or steers. Students will also be encouraged to participate in the community classroom program which places a student under the training and supervision of an agricultural business or in the internship program which allows students to gain experience at UC Davis or other institutions.

### **Class Requirements**

Students are expected to complete daily work assignments at the school farm. Students are required to provide their own work clothes and safety items, transportation is provided. Participation in the FFA Organization and Supervised Agricultural Experience Program (SAEP) are required.

## **Agricultural Mechanics I**

Year: 9-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: No

### **Course Description**

Agricultural Mechanics I lead to the development of skills typically found in an agricultural shop setting. These skills include; arc and gas welding, wood working, metal working, safe use of hand and power tools / machinery and construction of small to medium projects.

### **Class Requirements**

Materials recommended are safety glasses and a combination padlock.

## **Agricultural Mechanics II and ROP Agricultural Mechanics**

Year: 10-12

Prerequisite: Agricultural Mechanics I

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: No

### **Course Description**

This course is an advanced study of Agricultural Mechanics industry and fabrication. Students are expected to advance their skills in the following areas: all position Arc welding, Oxy Acetylene welding, MIG welding, welding joints, plasma arc cutting, flame cutting, sheet metal work, use of hand tools and power tools, electricity, plumbing, shop math, project construction utilizing layout and design techniques.

### **Class Requirements**

All students must have safety glasses and a combination padlock.

## **TECHNOLOGY**

### **Technology**

Year: 9

Prerequisite: None

DHS Graduation Requirement: Computer Literacy

UC/CSU Approval: No

### **Course Description**

The Technology class will enable students to improve their keyboarding skills with basic introduction of proper technique and practice. Students will learn the basics of MS Word, Excel, and PowerPoint. MS Word will be used to teach desktop publishing with students creating several assignments in various layouts. Students will learn to create PowerPoint slide shows and will practice delivering oral presentations to the class. Basic information literacy and research skills are taught, culminating in the research, creation and oral delivery of a major research assignment enhanced by a PowerPoint presentation. Information on preparing individuals for college and examining career interests and skills will be emphasized.

### **Class Requirements**

This is a daily participation class as the introduction of skills and daily practice will be done in class; therefore, daily attendance is essential. Absences must be made up outside of school time in order to earn back lost daily participation credit. Some work outside of class time may be required to meet important deadlines.

### **Journalism**

Year: 10-12

Prerequisite: application required

DHS Graduation Requirement: Elective

UC/CSU approved course: Yes (g)

### **Course Description**

This course is a combination of beginning journalism, media studies and newspaper production. Students will learn journalistic writing techniques including editorial, news, sports and features writing. Students study media bias and influences as well as the history of journalism in the US. In addition, students will work together to produce a school newspaper once a month participating in all aspects of production including story assignment and writing, editing, photography, and layout. Students will work with Adobe PageMaker and Photo Shop. UC/CSU approved elective.

### **Class Requirements**

Students are expected to meet story and picture deadlines regardless of presence. Students must make and complete a portfolio.

## **Multimedia Art 1**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective, Visual and Performing Art

UC/CSU approved course: Yes (f)

### **Course Description**

Computer and multimedia graphics have entered nearly every corner of today's growth industries. Used extensively in television, motion pictures, architecture, art, computer-aided design, games, simulation, modeling, visualization, telecollaboration, and interactive illustration, the field of computer graphics has moved forward rapidly due to commercial and industry demand. Students will develop an appreciation of traditional artistic expression as well as an understanding of the role of contemporary multimedia media as a verbal and visual means of communication in today's society and business culture. This course teaches beginning through advanced multimedia techniques involved in project planning, production elements, project completion and presentation skills. Students work individually and in groups to create dynamic web sites, original digital art and short video clips using industry standard professional software. Students expand their knowledge of graphic editing, interactive authoring, web design and video production. Students are required to maintain an electronic portfolio of their work. The class is structured around projects emphasizing the art elements of line, shape, color, texture, and content. It will introduce the students to the principles of design including rhythm, balance, proportions, and variety. The projects will also explore the areas of social and cultural emphasis and impact of multimedia. Students will also explore areas of personal and professional career growth and skills, creating a digital portfolio of projects. The ROP Multimedia Art I course is conducted in a manner that meets the content standards for Visual Arts as defined by the California State Board of Education. All course content is based on the Nine through Twelve – Proficient Visual Arts content standards. The course meets Dixon High School's Electives graduation requirement for one year of fine arts. Additionally, this course meets the Visual and Performing Arts requirement for the UC/CSU.

## **ROP Multimedia 2/WEB**

Year: 10-12

Prerequisite: One year of Multimedia I or teacher recommendation

DHS Graduation Requirement: Visual and Performing Art, Vocational Elective

UC/CSU approved course: (pending)

### **Course Description**

This class draws on all the tools and skills already acquired in Multimedia level 1. The students will work independently on many new projects. They will have the opportunity to experiment and explore new technologies as they emerge. The Multimedia II Class is challenges a student to use their skills in multimedia, graphics, animation, design applications, digital recording equipment. Students will create and manage ongoing web sites, with cascading style sheets to highlight and display their multimedia projects. Students will be exploring the advanced features of Adobe and Macromedia programs. Students will apply their skills in multimedia arts in the business and workplace world, by collaborating on simulated and real-life business scenarios.

## **ROP Multimedia 2/Publication (Yearbook)**

Year: 10-12

Prerequisite: Multimedia I recommended and application required

DHS Graduation Requirement: Visual and Performing Art, Vocational Elective

UC/CSU approved course: (pending)

### **Course Description**

The Dixon High School Yearbook is a student-produced account of clubs, sports, academics, student life, and people at Dixon High School. Students in this course will work under the guidance of the faculty adviser to produce a book that is held in high regard by students, parents, and members of the community. In this class, students will address the techniques and knowledge needed to produce and manage a school yearbook. The central focus of the course is related to a successful production of the school yearbook. This class is primarily a workshop where we will combine both work on this year's yearbook along with the learning of new skills. Students will work on building a publication and learning essential skills in all of the following areas: yearbook and journalism basics, writing copy, graphic design, photography, and business.

## **ROP Entrepreneurship/Virtual Enterprise**

Year: 10--12

Prerequisite: None

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: Yes (g)

### **Course Description**

A Virtual Enterprise is a simulated business that is set up and run by students to prepare them for working in a real business environment. With the guidance of a teacher (“consultant”) and real-world business partners, the students determine the nature of their business, its products and services, its management and structure, and engage in the daily operations of running a business. Emphasis is placed on using current business software, communications, and the Internet for business. This class is articulated to Solano Community College and senior students who pass the required assessment test may earn BUS 5 college elective credit.

### **ROP Diversified Occupations/ Work Experience**

Year: 10-12

Prerequisite: Must have a job

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: No

### **Course Description**

Students receive high school elective credit for experience gained through employment outside of school. Students secure their own jobs, however assistance and networking occurs in the classroom if they change or lose their job during the semester. They attend a weekly class and complete weekly written assignments pertaining to the world or work. The students learn valuable life and business skills required to be successful in any industry or career choice they make.

### **Instructional Materials**

Students are required to have a 3 ring 1” binder with 10 plastic protected pages.

### **Class Requirements**

You must be in the 11th or 12th grade and be 16 years of age or older and have a “C” average or better the last semester with no grade lower than “D” in a required class.

## **NON-DEPARTMENTAL**

### **Health**

Year: 9

Prerequisite: None

DHS Graduation Requirement: Health

UC/CSU Approval: No

### **Course Description**

Health covers topics about health, diet, drugs, reproduction, sexually transmitted infections and other issues regarding human physiology and psychology.

### **Class Requirements**

This is a daily participation class as the introduction of skills and daily practice will be done in class; therefore, daily attendance is essential. Absences must be made up outside of school time in order to earn back lost daily participation credit. Some work outside of class time may be required to meet important deadlines.

### **Leadership**

Year: 9-12

Prerequisite: Students must be academically eligible to apply. Application and teacher recommendations required

DHS Graduation Requirement: Elective

UC/CSU approved course: No

### **Course Description**

Leadership is a course for students who wish to be a part of the organization of student body activities at Dixon High School. Students must submit an application and be selected as a member of the class. All ASB and class officers are required to take this class. The main objectives of this class are to help solve problems and concerns of the student body as well as coordinate student school functions. Most of the class assignments are spent in small groups or committees. Dances, Rallies, school assemblies, spirit weeks, student orientation, community projects, and school elections are among the many projects the Leadership/Student Council coordinates.

### **Class Requirements**

To promote community spirit, 20 hours a semester of community service is required by each student; minimum of 6 in-school hours and 14 out-of-school hours. Students must serve on 6 committees each semester. Each student must maintain eligibility to be a member. Students are expected to follow through on all assigned or volunteered activities.

## **ROP Fire Science**

Year: 10-12

Prerequisite: Students must be 16 years old

DHS Graduation Requirement: Vocational Elective

UC/CSU approved course: No

### **Course Description**

Students enrolled in this introductory course to firefighting will receive instruction by active firefighters at the Dixon fire Department. Instruction will include: Safety, fire behavior, building construction, protective equipment, portable fire extinguisher, ropes and knots, rescue and extrication, forcible entry, ground ladders, ventilation, water supply, fire hose, fire streams, fire control, sprinkle system fundamentals, protecting evidence for fire cause determination, fire department communication, fire prevention and public fire education. In addition, students will receive CPR training, Wild land Training, Vehicle Extrication and Helicopter/Ambulance Training.

### **Class Requirements**

Prior to being accepted into this course, student and parent/guardian must attend a course orientation. Students selected to participate in this course must be at least 16 years old, have good communication skills, physical agility, coordination and stamina, and basic math skills. Students will be required to participate in physical agility training. Two periods a day.

## **Psychology**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Elective

UC/CSU approved course: Yes (g)

### **Course Description**

This course encompasses broad areas of research about human behavior. The student will learn about psychology and in the process learn something about himself or herself. Students will conduct experiments, be involved in simulations, work from a text, and other readings will be provided. Some major units are Brain, Body and Awareness, Human Development, Personality, Adjustment and Conflict and Psychological Disorders. UC/CSU approved for elective (g) credit.

### **Class Requirements**

Each student is required to keep a journal of everyday events and can express his/her feelings in the journal. In addition, students will be expected to participate in circle discussions in class.

## **AVID 9-12**

Year: 9-12

Prerequisite: Interview / Teacher Approved

DHS Graduation Requirement: N/A

UC/CSU approved course: No

### **Course Description**

The AVID Program (Advancement Via Individualized Determination) supports average students (2.5 – 3.5 GPA) motivated in attending and succeeding in college. The AVID curriculum centers on the WIC-R method (Writing, Inquiry, Collaboration–Reading) learning organizational and study skills, developing critical thinking skills, and increasing awareness of the college acceptance process. Activities, including Cornell note taking, quick writes, and tutorial groups, are structured around a Socratic-style approach. The College Path aides in developing college preparatory and decision-making skills, helping the students to set academic goals and designing a plan to reach them.

### **Class Requirements**

Coming to class prepared with tutorial questions, Cornell Notes, and other daily work. Being motivated to learn, grow, and succeed in school.

## **AVID Senior Seminar**

Year: 12

Prerequisite: Previous enrollment in AVID elective class for at least one year. Student must have a grade point average of 2.5 to 3.5, must be enrolled in at least one of the following: Advanced Placement (AP) course, Honors course, or in a college transferable course accepted by UC/CSU. Student selection for AVID classes is based on nomination, application, and interview.

## **Course Description**

The AVID Senior Seminar follows the weekly structure of all AVID classes, with two days of teacher led curriculum per week, two days of tutorial/study groups, and a day allocated for guest speakers and team building activities. Throughout the school year, the AVID teacher and counselor serve as the connection to colleges and universities. They will assist AVID students in applying for college, researching financial aid and scholarships, and preparing and registering for college entrance and placement exams. The AVID Senior Seminar is the culmination of a student's years in the AVID program, and the course involves substantial critical reading and writing preparation for exams and college level course work, and weekly Socratic seminars. Students are required to complete weekly timed writings, make presentations to the class on topics related to college entrance, contemporary issues and social concerns. Seniors are required to present a portfolio showcasing a collection of their completed work.

## **AVID Tutor**

Year: 11th and 12th Grade

Prerequisite: Must have completed Algebra II/Trig with a B or better, and an overall GPA of 2.8 or higher

DHS Graduation Requirement: Elective

UC/CSU approved: No

### **Responsibilities:**

AVID tutor is a semester elective for students wishing to be tutors in the AVID program. Students will facilitate tutorials for 5-7 AVID students twice a week during the tutorial portion of the AVID elective class, and assist the teacher in providing academic and organizational skills to students on the other 3 days.

Participants will:

- ◆ Identify roles and responsibilities of AVID Tutors.
- ◆ Lead an effective tutorial groups.
- ◆ Employ Socratic questioning techniques to help students attain mastery of material

Reference AVID for scholarship opportunities, personal statement, and add to your resume and college application.

You must request this class when making your course selecting for the upcoming school year.

## **CAHSEE English Prep**

Year: 11-12

Prerequisite: Must be an 11th or 12th grade who has failed one or both sections of the CAHSEE.

DHS Graduation Requirement: Elective

UC/CSU approved course: No

### **Course Description**

This course offers support and help to 11th and 12th grade student who have yet to pass the English Language Arts sections of the California High School Exit Examination (CASHEE).

Length: One semester

## **CAHSEE Math Prep**

Year: 11-12

Prerequisite: Must be an 11th or 12th grade who has failed one or both sections of the CAHSEE.

DHS Graduation Requirement: Elective

UC/CSU approved course: No

### **Course Description**

This course offers support and help to 11th and 12th grade student who have yet to pass the English Language Arts sections of the California High School Exit Examination (CASHEE).

Length: One semester

## **Chicano Studies**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Elective

UC/CSU approved course: Yes (g)

### **Course Description**

Chicano Studies is a unique course that will introduce students to a brief history of the Mexican American (Chicano) and the importance of Chicano Studies to American society. This course is taught in English and sometimes incorporates a blend of Spanish and English (Spanglish) to introduce terminology and concepts. The course will take students from the Pre-Columbian - Aztec era to the present day as students study heroic figures ranging from the political activist, Cesar Chavez, to the infamous pop star, Selena and

many more. Students will also have the opportunity to explore themes in literature, history, culture, and politics of the Mexican American community in the U.S. It will help them to integrate the ideas presented in World History and U.S. History and to see how Mexican/Chicano history is both similar and different. UC/CSU approved elective (g).

### **Instructional Materials**

*...And the Earth Did Not Devour Him* by Tomás Rivera  
*The Mexican American Heritage* by Carlos M Jiménez  
*Variety of Films* directed by Latino/Chicano Film Makers

### **Class Requirements**

Students are expected to participate daily in class discussions and to complete all assignments in and out of class. Students must provide a spiral notebook with a minimum of 150 pages.

### **Special Education**

Year: 9-12

Prerequisite: Individual Education Plan

UC/CSU Approval: No

### **Course Description**

The Special Education Department provides specialized, individual instruction in all areas of the curriculum including Math, Science, English, and History. Individual Education Plans (IEP) are developed and followed.

## **PHYSICAL EDUCATION**

### **Athletic Participation Credits**

*Athletes who have successfully completed both semesters of PE-9 may earn physical education credit by completing a season of sport. Five credits will be awarded for each for up to two seasons of sport credits (maximum of ten credits) and will count toward the Physical education graduation requirement. Only sophomores and juniors may earn PE credit through athletic sport participation. To receive athletic credit, the athlete must at no time of the season become ineligible, academic or otherwise. Additionally, an athlete may have missed no more than two weeks of the season due to the completing the process of getting a physical exam and beginning participation, attending or watching the Substance Abuse Police presentation and completing the initial drug test.*

### **PE 9**

Year: 9

Prerequisite: Must be a freshman, or have previously failed freshmen PE

DHS Graduation Requirement: Physical Education

UC/CSU Approval: No

### **Course Description**

The P.E. 9 class is a course based on the California State Framework for Physical Education. It is a required course for all freshmen and fulfills the first of a two-year physical education requirement for graduation from high school. The course emphasis is on preparing each student for lifetime fitness. Individual rather than team sports are the focus of this class.

At the completion of the course the student should be able to develop an individual fitness plan based on the individual's fitness needs. State testing is mandated for year 9 and will be included in this course.

### **Instructional Materials**

Equipment: All students are required to wear Dixon Unified School District physical education uniforms. That means that either uniforms purchased for use at C.A. Jacobs or Dixon High School may be worn for classes. This includes a pepper gray t-shirt with the C.A. Jacobs or the Dixon High P.E. logo on it, black shorts with the P.E. logo, and training shoes made for all types of physical activity. The cost: \$10 each for short and \$10 for each shirt or loaners will be provided. Any student who is unable to afford the uniform should contact the teacher to arrange a payment plan.

### **Class Requirements**

Students are expected to suit-up daily and complete daily class assignments. Materials recommended are a combination lock, notebook, paper, pens, pencils for class work and testing. Passing four semesters of P.E. is a California state requirement for graduation. Some teachers have projects so check with the individual teacher. Donations for field trips may be collected.

## **PE 10 – 12**

Year: 10-12

Prerequisite: None

DHS Graduation Requirement: Physical Education / Maybe be repeated for elective credit

UC/CSU Approval: No

### **Course Description**

P.E. 10 - 12 is a course based on the California state P.E. frameworks. This is a semester class and fulfills one-fourth of the Dixon High two-year physical education requirement for graduation. It may be taken as a 10th, 11th, or 12th grade student. The focus of this class is to explore team and individual sports, recreation, dance, and weight lifting, as well as address general fitness issues of the student.

### **Class Requirements**

Students are expected to suit-up daily and complete daily class assignments. Passing four semesters of P.E. is a California state requirement for graduation.

### **Instructional Materials**

Text: Shared by all classes. Each student will be assigned a text for use as needed. Equipment: All students are required to wear Dixon Unified School District physical education uniforms. That means that either uniforms purchased for use at C.A. Jacobs or Dixon High School may be worn for classes. This includes a pepper gray t-shirt with the C.A. Jacobs or the Dixon High P.E. logo on it, black shorts with the P.E. logo, and training shoes made for all types physical activity. The cost: \$10 each for short and \$10 for each shirt, or loaners will be provided. Materials recommended are a combination lock, notebook, paper, pens, pencils for class work and testing. Any student who is unable to afford the uniform should contact the teacher to arrange a payment schedule. Class outings may require a donation.

## **Weight Training**

Year: 10-12

Prerequisite: Instructor approval

DHS Graduation Requirement: Physical Education

UC/CSU Approval: No

### **Course Description**

The class fulfills one year of a two-year physical education requirement for graduation from high school. The course emphasis is on weight lifting techniques and training. Within the framework of the class the BFS (Bigger, Faster, Stronger) program is used extensively. Students who take this class should be serious about changing/improving their overall strength and conditioning through weight training.

### **Instructional Materials**

Text: Shared by all classes. Each student will be assigned a text for use as needed.

Equipment: All students are required to wear Dixon Unified School District physical education uniforms. That means that either uniforms purchased for use at C.A. Jacobs or Dixon High School may be worn for classes. This includes a pepper gray t-shirt with the C.A. Jacobs or the Dixon High P.E. logo on it, black shorts with the P.E. logo, and training shoes made for all types physical activity. The cost: \$10 each for short and \$10 for each shirt or loaners will be provided. Any student who is unable to afford the uniform should contact the teacher to arrange for an alternative payment plan.

### **Class Requirements**

Students are expected to suit-up daily and complete daily folder/notebook assignments. Materials recommended are a notebook, paper, pens, pencils for class work and testing. This class fulfills one year of the two-year physical education graduation requirement.

## **Advanced Weight Training & Conditioning**

Year: 10 – 12th Grade

Prerequisite: This course is open to DHS student-athletes or potential student-athletes who have successfully passed PE 9.

DHS Graduation Requirement: Elective

UC/CSU approved: No

### **Course Description**

The purpose of this course is to provide our student-athletes an opportunity to enhance their personal strength, skill, agility, flexibility, speed, endurance, plyometrics, nutritional & health habits and knowledge of their sport(s) through individual and team instruction. This course will also benefit all DHS sporting programs by providing coaches the opportunity to work directly with their student-athletes out of season as well as in season in accordance with the CIF standards. This format permits 12th graders to earn physical education units while actively pursuing their sporting interests.