

Code	Description	Key	Staff Needed
Virtual - Edgenuity	This course will be offered through Edgenuity. Students will take a quarter of the course for each nine week grading period that they select online learning. This section will include On-level and Advanced Placement courses.	Virtual E	A teacher to serve as a lab manager per every 150 students.  A teacher for each course (on the HS campus) to serve as a tutor for the Edgenuity course. Tutoring should be offered 2X a week for an additional stipend.
Virtual - Asynchronous	This course will be offered by a Lubbock ISD Virtual teacher designated to a specific course. This course will use the Learning Management System platform and meet a portion of the minutes requirements.	Virtual A	A teacher who works at the virtual school for each course. The teacher of record must have an appropriate certification.
Virtual - Synchronous	This course will be offered by a Lubbock ISD High School or Middle School face-to-face teacher. This course will only be offered in limited numbers for courses that are not offered in Edgenuity or require a unique certification.	Virtual S	A teacher who works at the High School campus and adds synchronous students to their existing roll of students.
Virtual - Face-to-Face	This course will be offered for virtual students in a face-to-face environment. This option is only allowed for CTE courses as referenced by TEA. These courses will be offered at the ATC or home high school for students who are already registered. These courses will be offered during the day in a scheduled period. Transportation must be provided by the student/family.	Virtual FTF	The teacher of record will remain the campus teacher.

# ENGLISH LANGUAGE ARTS AND READING

## **College Readiness English, Grade 12, 1 Credit**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course is a college preparatory course designed to assist students who do not meet college readiness standards based on the ACT, SAT or EOC test results. The course is embedded into the English 4 curriculum and intended to assist students in improving techniques and skills in reading and writing that are necessary to be successful when enrolling in a college entry level English course. Prerequisites: English I, II and III for 4th year English credit. (CP110100) (LCLR31)

## **Communication Applications, Grades 9-12, 1/2 Credit**

*4th year English credit (one-half) under Foundation Program and Foundation plus Endorsement Program*

In this speech course, students will be expected to identify, analyze, develop, and evaluate oral communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. Prerequisites: English I, II and III for one-half 4th year English credit. (03241400) (LCAR20)

## **Creative Writing, Grades 10-12, 1/2-1 Credit**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

Students participate in an introduction and examination of the different types of creative writing including poetry, prose, technical, and informative writing. Recommendation of English teacher suggested. Prerequisites: English I, II and III for 4th year English credit. (03221200) (LEWR30) (LEWR31)

## **Debate III, Grades 10-12, 1/2-1 Credit**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course is designed to educate students in the art of argumentation. Content includes analysis of propositions, academic research, preparation of research files and briefs, writing of arguments supporting and opposing propositions of policy and value, skills of refutation, presentation and delivery. Prerequisites: English I, II and III for 4th year English credit. (03240800) (LCDR41)

## **English I, Grade 9, 1 Credit [Regular] [Fundamentals] [Pre-AP] [Pre-IB International Scholars–LHS]**

In English I, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. This course provides an integrated study of reading, writing, listening, speaking, oral and written conventions, and research. Students will study a wide variety of literary and informational texts; compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and learn how to use the oral and written conventions of the English language in speaking and writing. Students will continue to address earlier skills as needed while they attend to skills for their grade level. This course vertically aligns with AP and IB English courses. (03220100) (LENR11) (LAPH11) (IENG11)

## **English II, Grade 10, 1 Credit. [Regular] [Academic-LHS] [Fundamentals] [Pre-AP] [Pre-IB International Scholars–LHS]**

In English II, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. This course provides an integrated study of reading, writing, listening, speaking, oral and written conventions, and research. Students will study a wide variety of literary and informational texts; compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and learn how to use the oral and written conventions of the English language in speaking and writing. Students will continue to address earlier skills as needed

while they attend to skills for their grade level. This course vertically aligns with of AP and IB English courses. (03220200) (LENR21) (LENZ21) (LAPH21) (IENG21)

**English III, Grade 11, 1 Credit, [Regular] [Academic – LHS] [Fundamentals]**

In English III, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. This course provides an integrated study of reading, writing, listening, speaking, oral and written conventions, and research with an emphasis on American literature. Students will study a wide variety of literary and informational texts; compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and learn how to use the oral and written conventions of the English language in speaking and writing. Students will continue to address earlier skills as needed while they attend to skills for their grade level. (03220300) (LENR31) (LENZ51)

**AP English III Language, Grade 11, 1 Credit [Advanced Placement] [Dual Credit-EECHS]**

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. (A3220100) (LENH61) (03220300) (LEND31)

**IB English III-IV, Grades 11-12, 2 Credits [International Baccalaureate HL]**

English III is an intensive study of British literature with an introduction to world literature through Greek classical theatre. A detailed study of poetry begins in the second semester and concludes in the senior year. Emphasis is placed on oral commentary, which is formally evaluated. A regular vocabulary study contributes to higher SAT scores in addition to enhanced communication in literary essays and discussion. Written assessment includes both formal papers, in-class essays, and the beginning work on the extended essay. The distinguishing focus of an IB class is independent thought and study in the language arts.

English IV tightens the focus on world literature from the Greek through contemporary writers. Written assessment includes the final copy of the extended essay, begun in literature and a 700 or 900 word essay under the grouping The Art of the Novel, the unit preceding the four hour exam given in the spring. Vocabulary study continues, as well as the oral commentary introduced in the junior year. This course encourages independent thought and broadens awareness of cultural and philosophical diversity. These two courses lead to the IB higher level examination in Language A1. (I3220600) (IENG31) (IENGL1) (I3220800) (IENG41) (IENGL2) (LHS)

**English IV, Grade 12, 1 Credit, [Regular] [Academic – LHS] [Fundamentals]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

In English IV, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. This course provides an integrated study of reading, writing, listening, speaking, oral and written conventions, and research with an emphasis on British literature. Students will study a wide variety of literary and informational texts; compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and learn how to use the oral and written conventions of the English language in speaking and writing. Students will continue to address earlier skills as needed while they attend to skills for their grade level. (03220400) (LENR41) (LENZ61)

**AP English IV Literature, Grade 12, 1 Credit [Advanced Placement] [Dual Credit-EECHS]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as the use of figurative language, imagery, symbolism, and tone. Writing is an integral part of the AP English Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. (A3220200) (LENH51) (03220400) (LEND41)

### **English for Speakers of Other Languages (ESOL) I & II, Grades 9-12, 1 Credit**

This course is limited to immigrant students who have lived in the United States only three years or less and whose proficiency in English is limited as determined by the school's Language Proficiency Assessment Committee (LPAC). Non-immigrant students may also take this class if their English Proficiency is "Beginner" as shown by TELPAS or "Negligible" or "Very Limited" on the Woodcock-Muñoz Language Survey Revised (WMLS-R) scores. It is highly recommended that students who score a one or two on the CALP Oral Language Total English part of the Woodcock-Muñoz Language Survey Revised (WMLS-R) be placed in ESOL I or II as recommended by the LPAC. Skills in listening, speaking, reading, writing, viewing, and representing will be developed according to each student's needs and abilities. The ESOL class is not a tutorial for other subjects. These courses may count only for English I and II credits required for graduation from a Texas high school. (03200600) (LSLE11) (03200700) (LSLE21)

### **ESL III, Grades 9-12, 1 Credit**

This course is an ESL support/intervention class for students who are still LEP and qualify for ESL services. Emphasis is on English reading and writing skills. This course is not for English credit, but to be taken along with an English course. Only local credit is given. (85000003) (LSLE31)

### **Humanities, Grades 11-12, 1 Credit [Regular] [Weighted Credit - Academic Decathlon]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

Humanities is an interdisciplinary course in which students recognize writing as an art form. Students read widely to understand how various authors craft compositions for various aesthetic purposes. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts. In addition, students use written composition to show an in-depth understanding of creative achievements in the arts and literature and how these various art forms are a reflection of history. All students are expected to participate in classroom discussions and presentations that lead to an understanding, appreciation, and enjoyment of critical, creative achievements throughout history. Understanding is demonstrated through a variety of media. Prerequisites: Successful completion of English I, II and III (03221600) (LEMR41) (LEMH41)

### **Independent Study in English, Grades 10-12, 1/2-3 Credits [Weighted Credit]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course is an elective course corresponding to the changing topics of the Academic Decathlon/Octathlon contests. The focus of the courses is determined by the USAD materials and guidelines determined yearly. Students have the opportunity to gain in-depth information regarding a particular text. The courses are lecture and discussion based with a writing component. Students participating in these courses will have been selected to participate on the Academic Decathlon/Octathlon teams. Prerequisites: Successful completion of English I, II and III for 4th year English credit. (03221800) (LIND21) (03221810) (LIND31) (03221820) (LIND41)

### **Journalism - Advanced: Newspaper Production III, Grades 11-12, 1/2-1 Credit [Regular] [Weighted credit]**

for students who have completed Advanced Newspaper Production I and II or Advanced Yearbook Production I and II]

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course focuses on newspaper production with topics including editing, graphics, design, layout, and advertising. Technology Application credit may be earned if 1) Graphics Communication and Design is listed as the course on the

transcript, and 2) TEKS for Graphics Communication and Design are met in Advanced Newspaper or Yearbook.

Prerequisite: instructor approval (03230160) (LJNR41) (LJNH41)

**Journalism - Advanced: Yearbook Production III, Grades 11-12, 1/2-1 Credit [Regular] [Weighted credit]**

for students who have completed Advanced Newspaper Production I and II or Advanced Yearbook Production I and II]

*4th year English credit under Foundation Program and Foundation Program plus Endorsement Program*

This course focuses on yearbook publication: graphics, design, layout, photography, magazine journalism techniques, advertising, budgets, and production. Technology Application credit may be earned if 1) Graphics Communication and Design is listed as the course on the transcript, and 2) TEKS for Graphics Communication and Design are met in Advanced Newspaper or Yearbook. [Prerequisite: instructor approval] (03230130) (LJYR41) (LJYH41)

**Oral Interpretation III, Grades 10-12, 1/2-1 Credit**

*4th year English credit under the Foundation Program and the Foundation plus Endorsement Program*

In Oral Interpretation, students study the oral reading or performance of a literary text as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Prerequisites: Successful completion of English I, II and III for 4th year English credit. (03240400) (LCOR41)

**PSAT/SAT Prep, Grades 10-11, 1/2-1, Credit [Weighted Credit]**

This course focuses on the study of foundational and advanced concepts in reading, writing, and mathematics for the purpose of helping students achieve greater success on college entrance exams and in higher education contexts. Students can expect to improve in vocabulary, critical reading, writing, algebra, statistics, and other miscellaneous skills and strategies. Curriculum includes materials in which teachers have received specific training from Princeton Review. (N1290050) (LEBH20-21)

**Public Speaking III, Grades 10-12, 1/2-1 Credit**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course is a study of preparation of public speeches and includes concepts of rhetoric, topic selection, library and electronic research skills, organization of ideas, preparation and presentation, and delivery skills. Prerequisites: Successful completion of English I, II and III for 4th year English credit. (03241100) (LCSR41)

**Reading I, II, III, Grades 9-12, 1/2-3 Credits**

This course is designed for students with deficiencies in reading as evidenced on the state assessment. Prerequisite: Recommendation of English teacher. (03270700) (LRDB11) (03270800) (LRDB21) (03270900) (LRDB31)

**Research and Technical Writing, Grades 10-12, 1/2-1 Credit [Regular] [Weighted Credit]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

This course is designed to improve skills in gathering information and putting information into written form. Emphasis is given to organizing material, interpreting data, using outlines, writing research papers and technical reports. Prerequisites: Successful completion of English I, II and III for 4th year English credit. (03221100) (LETR30) (LETR31) (LETH30) (LETH31)

**Senior Seminar, Grade 12, 1 Credit**

This course is designed to give students instruction for the four required components of Senior Project: the research paper, product, portfolio, and oral presentation. In addition, the course will include college and career preparation for all students and other information pertinent to seniors. Students will be given the opportunity to complete activities for post-secondary education, such as admissions applications, college essays, scholarship searches, financial aid and much more. (03221100) (LSSR41) (Talkington)

**Senior Seminar, Grade 12, 1 Credit (local)**

This course is designed to increase awareness about postsecondary options. Students will explore, plan and prepare for life after high school. Students will discover themselves by writing a personal statement, researching postsecondary institutions and career interests, and becoming financially aware of the costs related to continuing their education and ways to offset those costs as well as applying to colleges, scholarships and financial aid. (85000100) (LDSS41) (EHS)

**Theory of Knowledge, Grades 11-12, 1/2 Credit, [International Baccalaureate]**

Encourages the student's interdisciplinary approach to learning by analysis of information taken from various content fields. The course analyzes the role of language in the attainment of knowledge and seeks to inspire critical questioning. The course encourages students to apply knowledge from coursework and expects students to utilize an evaluative process for decision-making. An emphasis on thought in personal creativity and a review of literary responses to essential works will form the foundation for student inquiry and discussion. A research project integrating the readings from various disciplines and reflecting clarity of understanding of underlying philosophical concepts will be expected. The course fulfills the Theory of Knowledge requirement for the IB Diploma and is limited to Full Diploma Candidates who have met all other diploma requirements. Students may be removed from the class if the requirements are no longer met. Available spring semester junior year and fall semester senior year. Prerequisite: Declared and approved IB Diploma Candidate. (I3000100) (ITOK31) (LHS)

# MATHEMATICS

The Accelerated Mathematics Program is for students desiring to take the maximum number of math courses. Any ninth grade student who intends to take AP Calculus as a senior should schedule the accelerated program. Students in the accelerated program will be able to: (1) take Algebra I Pre-AP in 8th grade, Geometry in 9th grade, Algebra II in 10th grade, Precalculus or AP Statistics in 11th grade, and AP Calculus or AP Statistics in 12th grade; or (2) take Algebra I in the 9th grade, Geometry and Algebra II in 10th grade, Precalculus or AP Statistics in 11th grade, and AP Calculus or AP Statistics in 12th grade. Students who are enrolled in Pre-AP mathematics courses and take Algebra I in 8th grade are strongly encouraged to take five years of mathematics.

## **Algebra I, Grade 9, 1 Credit [Regular] [Fundamentals] [Pre-AP] [Pre-IB International Scholars-LHS]**

This course provides a foundation for higher level mathematics courses. Students will study functional relationships, the connections among ways of representing these relationships, and the use of representations of functions to solve problems. Connections are made to geometry, data analysis, probability, and discrete mathematics. This course vertically aligns with AP and IB math courses. Prerequisite: 8th grade math. (03100500) (MALR11) (MALH11) (IMAL11)  
*Algebra I is a prerequisite for all other math courses. This course must be successfully completed in order to move on to all other math courses.*

## **Algebra II, Grades 9-12, 1 Credit [Regular] [Fundamentals] [Academic – LHS] [Pre-AP] [Pre-IB International Scholars-LHS] [OnRamps – Talkington]**

*3rd year math credit under Foundation Program*

*3rd or 4th year math credit under Foundation plus Endorsement Program*

This course is recommended as a preparatory course for students planning to attend any university, college, or technical institute. Students will use functions as models for a number of applied settings. Geometric and algebraic concepts are extended and connected to topics in probability and statistics, trigonometry, and discrete mathematics. This course vertically aligns AP and IB math courses. Prerequisite: Algebra I (03100600) (MALR31) (MALH31) (MALZ31) (IMAL31)

## **AP Calculus AB, Grade 12, 1/2-1 Credit [Advanced Placement]**

*4th year math credit under Foundation plus Endorsement Program*

Calculus is the mathematical study of change. Calculus AB includes topics in differential and integral calculus and is comparable to courses in colleges and universities. This course is for college-bound students who have completed appropriate prerequisites and who plan to enter a college program requiring a strong mathematics background. It is expected that students who take an Advanced Placement course in calculus will seek college credit and/or placement from institutions of higher learning. In order for students to take AP Calculus, see the recommended sequence of courses listed in the Accelerated Mathematics Program as mentioned above. (A3100101) (MCLH51)

## **AP Calculus BC, Grade 12, 1 Credit [Advanced Placement]**

*4th year math credit under the Foundation plus Endorsement Program*

This course is for college-bound students who have completed appropriate prerequisites and who plan to enter a college program requiring a strong mathematics background. Calculus BC is a full year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics. The content of Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB. In order for students to take AP Calculus, see the recommended sequence of courses listed in the Accelerated Mathematics Program as mentioned above. (A3100102) (MCLH71)

## **College Readiness Math, Grade 12, 1 Credit**

*4th year math credit under Foundation plus Endorsement Program*

This course is a college preparatory course designed to assist students who do not meet college readiness standards based on the ACT, SAT or EOC test results. The course is embedded into math curriculum and intended to assist

students in improving math techniques and skills that are necessary to be successful when enrolling in a college entry level math course. (CP111200) (MCLR31)

### **AP Computer Science A, Grades 10-12, 2 Credits [Advanced Placement]**

*3rd year math credit under Foundation Program*

*3rd or 4th year math credit under Foundation plus Endorsement Program*

The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. Students will learn to design and implement solutions to problems by writing, running, and debugging computer programs, use and implement commonly used algorithms and data structures, develop and select appropriate algorithms and data structures to solve problems, and code fluently in an object-oriented paradigm using the programming language Java. Students are expected to be familiar with and be able to use standard Java library classes from the AP Java subset, and read and understand a large program consisting of several classes and interacting objects. Students should be able to read and understand a description of the design and development process leading to such a program and recognize the ethical and social implications of computer use. Students will prepare to earn MTA Java certification. Recommended prerequisite: Algebra I. (A3580110) (YCSH51) (A3580120) (YCSH61)

### **Differential Equations, Grades 11-12, 1 Credit [Weighted Credit]**

This course focuses on linear differential equations and applications. Topics include but are not limited to: first order differential equations, linear and non-linear differential equations, series solution of linear equations, series solution of linear equations, the Laplace transform, and systems, both linear and non-linear. After completing this course, students will be able to apply numerical, computational, and estimation techniques. Prerequisite: Calculus AB or Calculus BC. (03102501) (MISH41) (LHS)

### **Financial Mathematics, Grades 10-12, 1 Credit [Regular] [Fundamentals]**

*3rd year math credit under Foundation Program and Foundation plus Endorsement Program*

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and postsecondary education planning into financial decision making. Prerequisite: Algebra I. (13018000) (YFFR11)

### **Geometry, Grades 9-12, 1 Credit [Regular] [Fundamentals] [Pre-AP] [Pre-IB International Scholars-LHS]**

This course continues to develop the foundation for high school mathematics. Geometry consists of the study of geometric figures of zero, one, two, and three dimensions and the relationships among them. Students perceive the connection between geometry and the real and mathematical worlds and use geometric ideas, relationships, and properties to solve problems. This course aligns vertically with AP and IB math courses. Prerequisite: Algebra I. (03100700) (MGER21) (MGAH11) (IMGE21)

### **Independent Study in Mathematics - College Algebra, Grades 11-12, 1 Credit [Regular] [Dual Credit-EECHS]**

*4th year math credit under Foundation plus Endorsement Program*

This course studies the relations and functions of polynomial, rational, exponential, logarithmic, and special functions. It is for juniors or seniors who have not taken or are not taking Precalculus or Calculus. It is designed to prepare students to take college-entry freshman math and/or prepare students for the TSI Assessment, SAT, and ACT. College. Prerequisites: Geometry and Algebra II. (03102500) (MISR21) (MISH21) (MISD21)

### **OnRamps College Algebra, Grades 10-12, 1 Credit [Weighted Credit]**

This course extends the concepts learned in Algebra II, either taken with Algebra II or studied as an independent course after the completion of Algebra II. OnRamps is a dual enrollment course, which is currently administered through the University of Texas. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. (3102530) (MISH51)

**IB Mathematics SL, Grades 11-12, 2 Credits [International Baccalaureate SL]**

*4th year math credit under Foundation plus Endorsement Program*

This is a course of study that includes circular functions and trigonometry, vector geometry, statistics, probability, and calculus. If a student chooses not to take Math Higher Level as a senior, then the student will submit a portfolio for external grading in this course. Upon completion of the Mathematics SL course and Calculus, the student will be prepared for the Advanced Placement AB Calculus exam and the IB standard level examination in Math Methods. Prerequisite: Algebra II Academic.(I3100100) (IMAM31) (IMAML1) (LHS)

**IB Mathematics HL, Grade 12, 2 Credits [International Baccalaureate HL]**

*4th year math credit under Foundation plus Endorsement Program*

This course is a continuation of Mathematics SL, but at a higher level of synthesis and evaluation. The course includes the study of circular functions, trigonometry, vector geometry, matrices, transformations, statistics, probability and calculus. Upon completion of this course, the student will be prepared for the Advanced Placement AB Calculus, or BC Calculus exam and/or the IB higher level math examination. Prerequisite: Math SL IB. (I3100300) (IMAH31) (IM AHL1) (LHS)

**IB Mathematics Analysis and Approaches I, Grades 11-12, 2 credits [International Baccalaureate]**

Year one of analytic methods with an emphasis on calculus – appropriate for pure mathematicians, engineers, scientists, economists, those with an interest in analytic methods – current HL mathematics calculus option content will form part of the HL course. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses. Prerequisite: Algebra II and Precalculus (I3100500) (IMAA31) (LHS)

**IB Mathematics Analysis and Approaches II, Grade 12, 2 credits [International Baccalaureate]**

Year two of analytic methods with an emphasis on calculus – appropriate for pure mathematicians, engineers, scientists, economists, those with an interest in analytic methods – current HL mathematics calculus option content will form part of the HL course. This subject is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physical sciences, or some economics courses. Prerequisite: IB Math Analysis and Approaches I (I3100600) (IMAA41) (LHS)

**IB Mathematics Applications and Interpretation, Grades 11-12, 2 credits [International Baccalaureate]**

This course will have an emphasis on statistics, modeling and use of technology - appropriate for students with an interest in the applications of mathematics and how technology can support this. This subject is aimed at students who will go on to study subjects such as social sciences, natural sciences, statistics, business, some economics courses, psychology, and design. Prerequisite: Algebra II (I3100700) (IMAI31) (LHS)

**Mathematical Models with Applications, Grades 9-12, 1 Credit [Regular] [Fundamentals]**

*3rd year math credit under Foundation Program and Foundation plus Endorsement Program*

In this course, students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines such as personal finance, music, art, and architecture, and probability and statistics. Prerequisite: Algebra I; (03102400) (MMMR21)

**Precalculus, Grades 11-12, 1/2-1 Credit [Academic-LHS] [Pre-AP] [Pre-IB International Scholars-LHS] [Dual Credit - EECHS]**

*4th year math credit under Foundation plus Endorsement Program*

This course is the study of college-level Algebra and Trigonometry that is designed to prepare students for the study of Calculus. The course approaches topics from a function point of view, and is designed to strengthen and enhance conceptual understand and mathematical reasoning. This course will receive weighted credit. This course may also have

a dual credit option. This course vertically aligns with AP and IB math courses. Prerequisites: Geometry and Algebra II. (03101100) (MCKZ31) (MCKH31) (IMCK31) (MCKD31)

**OnRamps Precalculus, Grades 11-12, 1 Credit [Weighted Credit]**

*4th year math credit under Foundation plus Endorsement Program*

This course is the study of college-level Algebra and Trigonometry that is designed to prepare students for the study of Calculus. The course approaches topics from a function point of view, and is designed to strengthen and enhance conceptual understand and mathematical reasoning. This class is a dual enrollment course, which is currently administered through Texas Tech University. Students will receive a high school grade from their everyday instructor and a college grade from their correspondence professor. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. Prerequisites: Algebra I, Geometry and Algebra II. (3101100) (MCKH41)

**AP Statistics, Grade 11-12, 1/2 - 1 Credit [Advanced Placement]**

*3rd year math credit under Foundation Program*

*3rd or 4th year math credit under Foundation plus Endorsement Program*

This course is for college-bound students who plan to enter a college program involving the sciences and data analysis. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes of exploring data, planning a study, anticipating patterns, and statistical inference. It is expected that students who take an Advanced Placement course in statistics will seek college credit and/or placement from institutions of higher learning. This course may also have a dual credit option. Prerequisite: Algebra I. (A3100200) (MCLH61)

**OnRamps Statistics, Grades 11-12, 1 Credit [Weighted Credit]**

*4th year math credit under Foundation plus Endorsement Program*

This course is for college-bound students who plan to enter a college program involving the sciences and data analysis. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes of exploring data, planning a study, anticipating patterns, and statistical inference. This class is a dual enrollment course, which is currently administered through Texas Tech University. Students will receive a high school grade from their everyday instructor and a college grade from their correspondence professor. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. (A3100200)(MCLH81)

**UIL Mathematics, Grades 9-12, 1/2-1 Local Credit [Weighted Credit]**

This course provides an extensive study of calculator applications, number sense shortcuts, and knowledge of high school mathematics content in order to prepare for UIL math competition. Credit is available only for students participating in UIL mathematics competitions. The UIL Mathematics course does not meet the graduation math requirements. (84100014) (MILH31)

# SCIENCE

## **IB Anatomy and Physiology HL, Grades 11-12, 2 Credits [International Baccalaureate HL]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

Anatomy and Physiology is a second year course designated to prepare students for the Biology higher level examination and will focus on Human Anatomy and Physiology. Anatomical structure of the human body will be explored in depth as well as the homeostatic regulating mechanisms that keep the body functioning properly. Students will be required to do a major project with other IB Science students and keep an extensive portfolio of laboratory work. With the completion of this course, students will take the IB Biology Higher Level examination. Prerequisite: Biology IB. (I3010202) (IANP41) (IANPL2) (LHS)

## **Aquatic Science, Grades 10-12, 1 Credit**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

In this course, students will conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Topics include components of an aquatic ecosystem, relationships among aquatic habitats and ecosystems, roles of cycles within an aquatic environment, adaptations of aquatic organisms, changes within aquatic environments, geological phenomena, fluid dynamics effects, and origin and use of water in a watershed. (03030000) (SMSR41)

## **Astronomy, Grades 10-12, 1 Credit**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, and reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. (03060100) (SASR31)

## **Biology, Grades 9-12, 1 Credit, [Regular] [Pre-AP] [Pre-IB International Scholars-LHS]**

In this course students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. This course vertically aligns with AP and IB science courses. (03010200) (SBIR21) (SBPH21) (IANP21)

## **AP Biology, Grades 10-12, 1 Credit [Advanced Placement]**

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This is a college-level introductory biology course recommended for all students who are preparing for careers in medicine or the biological sciences. The course will cover three general areas of study: molecules and cells (chemistry, cells, cellular energetics), heredity and evolution (heredity, molecular genetics, evolutionary biology), and organisms and populations (diversity of organisms, structure and function of plants and animals, ecology). It is expected that students who take an Advanced Placement course in biology will seek college credit and/or placement from institutions of higher learning. Prerequisites: Biology and Chemistry. Chemistry may be taken concurrently. (A3010200) (SBH31)

**IB Biology, Grades 11-12, 2 Credits [International Baccalaureate]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

The first course of a two-year sequence for IB Biology Higher Level. The first course is an internationally recognized curriculum which includes an in-depth exploration of topics such as cytology, biochemistry, cellular energetics, genetics, molecular biology, evolution, ecology and a survey of organisms and populations. Students will be required to do a major project with other IB Science students and keep an extensive portfolio of laboratory work. Prerequisite: Biology I Pre-AP, Chemistry (may be taken concurrently). (I3010201) (IANP31) (IANPL1) (LHS)

**Chemistry, Grades 10-12, 1 Credit [Regular] [Pre-AP] [Pre-IB International Scholars-LHS]**

*2nd or 3rd year science credit under the Foundation Program*

*2nd, 3rd or 4th Science credit under the Foundation plus Endorsement Program*

In this course students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. This course vertically aligns with AP and IB science courses. (03040000) (SCMR31) (SCMH31) (ICHM21)

**AP Chemistry, Grades 11-12, 1 Credit [Advanced Placement]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This is a college-level course that will cover the fundamental principles of chemistry with an emphasis on the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics, and thermodynamics in depth. It is expected that students who take an Advanced Placement course in chemistry will seek college credit and/or placement from institutions of higher learning. Prerequisite: Chemistry. (A3040000) (SCMH51)

**OnRamps Chemistry, Grades 10-12, 1 Credit [Weighted Credit]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This is a college-level course that will cover the fundamental principles of chemistry with an emphasis on the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics, and thermodynamics in depth. This class is a dual enrollment course, which is currently administered through the University of Texas. Students will receive a high school grade from their everyday instructor and a college grade from their correspondence professor. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. Prerequisite: Chemistry. (IHE11200) (SCMH61)

**IB Chemistry SL, Grades 11-12, 2 Credits [International Baccalaureate SL]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This is a one-year course that will review and expand on all topics from Chemistry I Pre-AP. Equilibrium, Electrochemistry, Nuclear Chemistry Environmental Chemistry, and Organic Chemistry will also be covered. An extensive lab program will be carried out and documented. Students will also prepare an extended project. Students can expect to spend at least three hours per week in homework and lab preparation. This course leads to the IB standard level examination in Chemistry. Prerequisite: Chemistry I Pre-AP. (I3040002) (ICHM31) (ICHML1) (LHS)

**IB Chemistry HL, Grades 11-12, 2 Credits [International Baccalaureate HL]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This course is designed to prepare the student for the IB Chemistry Higher Level exam. The course is a minimum of 240 classroom hours over a two year span. These 240 hours are composed of the IB Chemistry SL course and this, the IB Chemistry HL course. HL students study topics in greater detail, study additional topics, and study options in greater depth. Options include modern analytical chemistry, human biochemistry, chemistry in industry and technology, medicine and drugs, environmental chemistry, food chemistry, and further organic chemistry. The student will participate in the Group 4 Project. Prerequisites: Chemistry Pre-AP, IB Chemistry SL, and Algebra 2. (I3040003) (ICMH41) (ICHML2) (LHS)

### **AP Environmental Science, Grades 11-12, 1 Credit [Advanced Placement]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This is a college-level introductory environmental science course recommended for all students who are preparing for careers in ecology and the environment. It is expected that students who take an Advanced Placement course in environmental science will seek college credit and/or placement from institutions of higher learning. Prerequisites: Algebra I and two years of high school science including one year of a life science and one year of a physical science. (A3020000) (SESH31)

### **Environmental Systems, Grades 10-12, 1 Credit**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

In this course students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments. (03020000) (SESR31)

### **OnRamps Geoscience, Grades 10-12, 1 Credit [Weighted Credit] [Dual Credit-EECHS]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

Geoscience is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop an understanding of Earth's systems in space and time. Students will spend time studying the geosphere (solid Earth) hydrosphere (water), and atmosphere systems. Students will focus on how these systems interact with each other and how they interact with the biosphere (life). In addition, students will investigate how the Earth is part of the much larger solar and stellar systems. This class is a dual enrollment course, which is currently administered through Texas Tech University. Students will receive a high school grade from their everyday instructor and a college grade from their correspondence professor. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. (03060200) (SEAH41) (SEAD41)

### **Integrated Physics and Chemistry, Grades 9-12, 1 Credit [Regular]**

In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter, and solution chemistry. (03060201) (SPSR11)

### **Physics, Grades 10-12, 1 Credit [Regular] [Pre-AP]**

*2nd or 3rd science credit under the Foundation Program*

*2nd, 3rd, or 4th year science credit under the Foundation plus Endorsement Program*

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: law of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear and quantum physics. Students will acquire factual knowledge

within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills. Prerequisites: One year of science, Algebra I and concurrent enrollment in a second year of math. (03050000) (SPYR41) (SPYH41)

### **OnRamps Physics, Grades 10-12, 1 Credit [Weighted Credit] [Dual Credit-EECHS]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics, energy, momentum, rotational motion, gravity, solids & fluids, waves and sound, thermal physics, thermal energy and laws of thermodynamics. This class is a dual enrollment course, which is currently administered through Texas Tech University. Students will receive a high school grade from their everyday instructor and a college grade from their correspondence professor. Students have the potential to earn college credit, which can be accepted or rejected at the end of the course depending on student satisfaction with the grade. Prerequisite: Algebra II (or concurrent enrollment). (03050000) (SPYH51) (SPYD41)

### **AP Physics I, Grades 10-12, 1 Credit [Advanced Placement]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics, work, energy, power, mechanical waves, sound, and electric circuits. Prerequisite: Geometry. (A3050003) (SPYH81)

### **AP Physics II, Grades 11-12, 1 Credit [Advanced Placement]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

This course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Prerequisites: AP Physics I and Precalculus or concurrently enrolled in Precalculus. (A3050004) (SPYH91)

### **AP Physics C, Grades 11-12, 1 Credit [Advanced Placement]**

This is a college-level course designed to prepare a student for study in engineering or other physical science disciplines. The class is divided by semester into mechanics and electromagnetism. Many of the concepts covered will require differential or integral calculus. It is expected that students who take an Advanced Placement course in physics will seek college credit and/or placement from institutions of higher learning. Prerequisite: Calculus or concurrently enrolled in Calculus. (A3050005) (SPYH71)

### **AP Physics C Mechanics, Grades 11-12, 1 Credit [Advanced Placement]**

This course provides instruction in each of the following six content areas: kinematics; Newton's Laws of Motion; work; energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Students will cover these topics in-depth, while learning how to apply, algebra, geometry, precalculus, and calculus. Students should be prepared for calculus-based work. At the end of this course, students are expected to take the AP Physics C Mechanics exam. Prerequisite: Algebra II and Precalculus or concurrently enrolled in Precalculus. (A3050006) (SPMH31) (MHS)

### **AP Physics C Electricity and Magnetism, Grades 11-12, 1 Credit [Advanced Placement]**

This course provides instruction in each of the following five content areas: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Students will cover these topics in-depth while learning how to apply, algebra, geometry, precalculus, and calculus. Students should be prepared for calculus-based work. At the end of this course, students are expected to take the AP Physics C Electricity and Magnetism exam. Prerequisite: AP Physics C Mechanics. (A3050005) (SPEM31) (MHS)

**IB Physics II SL, Grades 11-12, 2 Credits [International Baccalaureate SL]**

*3rd year science credit under the Foundation Program*

*3rd or 4th year science credit under the Foundation plus Endorsement Program*

IB Physics I is a course designed to meet the specifications of the IB Physics program. It offers a combination of lecture/laboratory environment to teach the basic concepts of physics, the topics of mechanics, thermal physics, waves, electricity and magnetism. Prerequisite: Algebra I, one unit of high school science, and completion of, or concurrent enrollment in, a second year of mathematics. IB Physics II offers the opportunity for the student to get a more in-depth look at the topics discussed in IB Physics I with the addition of astrophysics, special and general relativity, and historical physics. An extended group project will allow the students to experience scientific research first hand. Prerequisite: IB Physics. After the completion of these two courses, the student will be prepared to take the IB Physics HL or SL exam. (I3050002) (IPHY41) (IPHYL1) (LHS)

**Principles of Technology, Grades 11-12, 1 Credit**

*2nd or 3rd year science credit under the Foundation Program*

*2nd, 3rd or 4th year science credit under the Foundation plus Endorsement Program*

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment through modules focusing on Impact, Programming, Representation, Digital Manipulation, Computers, Big Data, Artificial Intelligence, and Innovations. (13037100) (YGLR11)

## SOCIAL STUDIES

### **AP Comparative Government, Grades 11-12, 1/2 Credit [Advanced Placement]**

This course provides an opportunity to study the United States political system and compare and contrast it with the governments of several European, Asian, African, and South American countries. Studies will include analysis of political institutions, political values and processes as well as the structure and function of the government on both local and national levels. Attention will be paid to cultural influences on political systems, and emphasis will be given to how these foreign political systems compare and contrast with the United States political system. This course can substitute for U.S. Government for LISD graduation requirement. Prerequisite: Two credits of high school social studies including World Geography or World History and United States History Since Reconstruction. (A3330200) (TACG40)

### **AP Comparative Government and Macroeconomics Combo, Grades 11-12, 1 Credit [Advanced Placement] [LHS]**

This course provides an opportunity to study the United States political system alongside a thorough investigation of the principles of economics that apply to the U.S. economic system as a whole. Students will compare and contrast United States political and economic systems with several European, Asian, African, and South American countries. Studies will include analysis of political institutions, political values and processes as well as the structure and function of the government on both local and national levels, and the cultural influences on political system. A particular emphasis is placed on the study of national income and price-level determination, and students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics is also developed. This course can substitute for U.S. Government and Economics with Emphasis on Free Enterprise System and its Benefits for LISD graduation requirement. Students must complete the entire year (1.0) in order to meet state graduation requirements. Prerequisite: Two credits of high school social studies including World Geography or World History and United States History Since Reconstruction. (A3330200) (TACG40) (TMEH40)

### **Economics with Emphasis on Free Enterprise System and its Benefits, Grades 11-12, 1/2 Credit [Regular]**

#### **[Academic – LHS]**

This is a survey course of general economic principles. Students will study the production, distribution, and consumption of wealth and learn how different societies deal with the problem of scarcity. Content will also focus on the structure of a free enterprise system and the role of government within the economy of the United States. Prerequisite: Two credits of high school social studies including World Geography or World History and United States History Since Reconstruction. (03310300) (TECR40) (TECZ40)

### **AP European History, Grades 10-12, 1/2 or 1 Credit [Advanced Placement]**

This course is designed to complement English IV AP (world literature). The content will cover European history in its global context from 1450 through modern times. Students will study the historical, political, economic, social, intellectual, and cultural developments of Europe through a humanities approach. In addition, students will review the classical civilizations of ancient Greece and Rome to prepare for the AP examination. This course may not be used as a substitute for World History or World Geography Studies. Prerequisite: World Geography, Human Geography AP, World History or World History AP. (A3340200) (TAHH31)

### **IB European History/20th Century World Topics, Grades 11-12, 2 Credits [International Baccalaureate HL-LHS]**

IB European History is the first year of a two-year program in history. The course covers European History from the Renaissance through the fall of communism and European unification. The course is discussion oriented and has a heavy writing component. The essential content of AP European history is covered as are primary source analysis associated with both IB and AP exams. Two formal research papers are required, one in the fall and one in the spring. Prerequisite: Admission to the IB Diploma Program (2) The 20th Century World Topics course is the second year complement to the European history class completing a two-year IB curriculum in advanced historical studies. The course will focus on the 20th Century and give special emphasis to topics such as the causes, practices and effects of war, nationalist and independence movements, the rise and rule of single party states and the Cold War. These two courses lead to the IB

higher level examination in European History. Prerequisite: IB European History. (I3301500) (IEUH31) (IEUHL1) (IWOR41) (IWORL1) (LHS)

**IB History of the Americas/20th Century World Topics, Grades 11-12, 2 Credits [International Baccalaureate HL-LHS]**

IB History of the Americas is the first year of a two-year program in history. The History of the Americas examines not only the major events that have shaped the region's history, but also the peoples of the Americas and their struggles to achieve goals including freedom, equality, and economic opportunity. Some of the topics include the wars of independence and revolution, the search for equality, the fight for political participation of all individuals, foreign diplomacy, demographic shifts, world wars, popular culture changes, and changes in technology that have impacted society. The history of the United States will be a major emphasis, but the histories of Canada and Latin America will also be considered. The course will utilize college-level textbooks, and will also give the students an opportunity to analyze primary source documents. The course will enhance writing skills, as historical writing is a focus of this course.

Prerequisite: Admission to the IB diploma program.

The 20th Century World Topics course is the second year complement to the History of the Americas class completing a two year IB curriculum in advanced historical studies. The course will focus on the 20th century and give special emphasis to topics such as the causes, practices, and effects of war, nationalist and independence movements, the rise and rule of single party states and the Cold War. These two courses lead to the higher level examination in History of the Americas.

Prerequisite: IB History of the Americas. (13301300) (IHAM31) (IHAML1) (IWOR41) (LHS)

**AP Human Geography, Grades 9-12, 1 Credit [Advanced Placement] [Pre-IB International Scholars – LHS]**

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice in preparation for the Advanced Placement test given at the end of the course. Experience with reading and comprehending texts written at the college level is beneficial. Summer course work is required at some campuses (refer to school home page). For incoming 9th graders, previous PAP courses are highly recommended. Content requirements for AP Human Geography are prescribed in the College Board Course Description and in TEKS relating to World Geography Studies. This course vertically aligns with AP and IB social studies courses.

(A3360100) (TWAG21)

**AP Macroeconomics, Grades 11-12, 1/2 Credit [Advanced Placement]**

This course provides students with thorough understanding of the principles of economics that apply to an economic system as a whole. A particular emphasis is placed on the study of national income and price-level determination, and students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics is also developed. Students will build their knowledge base in preparation for the Advanced Placement test given at the end of the course. (A3310200) (TMEH40)

**Personal Financial Literacy, Grades 11-12, 1/2 Credit [Regular]**

This course content is designed to be interactive and research-based and will develop citizens who understand financial responsibility, have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles. The course will teach students to apply critical thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting and college or postsecondary training. (03380082) (TPFL10)

**Psychology, Grades 10-12, 1/2 Credit [Regular] [Weighted - Dual Credit] [Advanced Placement]**

The course content is designed to give students some insights into human behavior, such as factors involved in learning, analysis of behavior patterns which influence human behavior and adjustment to the social environment or cultural group to which they belong. (03350100) (TPSR30) (TPSH30) (A3350100) (TPSH40)

**IB Psychology I and II, Grades 11-12, 2 Credits [International Baccalaureate]**

This course examines the interaction of biological, cognitive, and sociocultural influences on human behavior, thereby adopting an integrative approach. The course includes abnormal psychology, developmental psychology, health psychology, psychology of human relations, and sports psychology. It also includes qualitative research and a simple experimental study. It is one year in length and the student will be prepared for the IB Psychology SL exam. (I3304100) (IPSY31) (IPSYL1) (IPSY41) (IPSYL2) (LHS)

**Sociology, Grades 10-12, 1/2 Credit [Regular]**

The course provides an opportunity for systematic study of individuals, groups, and social institutions. Content includes such concepts as social stratification and mobility; cultural conflict, change, and contact; the structure and function of social institutions; and the role of mores, traditions, and folkways in a society. (03370100) (TSOR30)

**Special Topics in Social Studies (Academic Decathlon), Grades 10-12, 1/2 Credit [Weighted Credit]**

This course is an elective course corresponding to the changing topic(s) of the Academic Decathlon contest each year. The focus of the course is determined by the USAD materials and guidelines determined yearly. Students have the opportunity to gain in-depth information regarding a particular emphasis in U.S. or a global historical theme. The course is lecture and discussion based with a writing component. Students participating in this course will have been selected to participate on the Academic Decathlon team. (03380002) (TSSA10)

**Special Topics in Social Studies: EOC U.S. History I, Grades 11-12, 1/2 Credit**

This course is designed to survey and review all topics previously taught in on-level United States History since Reconstruction, in order to prepare for fall EOC administration. The course continues the focus on the history, geography, and political and economic growth of the nation. Students study the emergence of the United States as a world power, how geography influences historical developments, economic development and growth, social and cultural developments, and political development of the United States from Reconstruction to the present. (03380002) (TEOC10)

**Special Topics in Social Studies: EOC U.S. History II, Grades 11-12, 1/2 Credit**

This course provides a second opportunity for students who have not yet passed the U.S. History EOC to receive further instruction and review prior to the spring EOC administration. The course continues the focus on the history, geography, and political and economic growth of the nation. Students study the emergence of the United States as a world power, how geography influences historical developments, economic development and growth, social and cultural developments, and political development of the United States from Reconstruction to the present. (03380022) (TEOC20)

**Special Topics in Social Studies: Practical Law, Grades 10-12, 1/2 Credit [Regular] [Weighted Credit]**

The course focuses on criminal and civil law, complexities of legal and political issues, the value of the democratic process, and the gap between the ideals and realities of the political and legal system. The course is designed to help students develop individual responsibility in perpetuating the democratic process in our legal system. Students who enroll in the course should be proficient in locating and organizing data independently, in applying critical thinking skills to issues, in participating in group activities and discussion, in using a variety of data-gathering techniques, and in practicing leadership skills. (03380002) (TSSR40) (TSSH40) (Mock Trial) (03380022) (TSSH50) (03380032) (TSSH60) (03380042) (TSSH70)

**Special Topics in Social Studies: World Civilizations, Grades 11-12, 1/2 Credit [Weighted Credit] [Dual Credit - EECHS]**

This course is a historical survey of ancient, medieval, and modern civilizations of the world with an emphasis on Latin American, African, Asian, and European cultures. Students will have the opportunity to examine in greater depth the geographic, cultural, and religious influences on humankind from the dawn of man to the present. The course is lecture and discussion based, with a heavy writing component. There is no AP test directly associated, but this course will assist students in preparing for the AP World History exam. (03380002) (TWSR41) (TWSD41)

**United States Government, Grades 11-12, 1/2 Credit [Regular] [Advanced Placement] [Academic – LHS]**

This course provides an opportunity to study in depth the foundation of the United States political system; to analyze the political institutions, processes, and values of the system; to trace the development of the United States governmental system; and to analyze the structure and functions of government on local, state, and federal levels. The content focuses on an analysis of historic documents associated with the political development of the United States and on students' participation and decision-making in civic affairs. Prerequisite: Two credits of high school social studies including World Geography or World History and United States History Since Reconstruction. (03330100) (TAGR40) (A3330100)(TAGH40) (TAGZ40)

**United States History since Reconstruction, Grades 10-11, 1 Credit [Regular]**

The second year of study of United States history includes significant individuals, issues, and events from Reconstruction to the present. The course continues the focus from grade 8 on the history, geography, and political and economic growth of the nation. Students study the emergence of the United States as a world power, how geography influences historical developments, economic development and growth, social and cultural developments, and political development of the United States from Reconstruction to the present. Prerequisite: Two credits of high school social studies including World Geography or World History (03340100) (TAMR31)

**AP United States History, Grades 10-11, 1 Credit [Advanced Placement]**

In this course students are taught to think critically about the issues that have confronted and influenced the United States through a process that integrates the examination of factual knowledge, the development and application of analytic skills, and the assessment of primary and secondary sources. Students will examine the development of the American republic from the initial European incursions into North America to the present. The course is divided into periods of time and focuses on the themes in the AP Course Description and the TEKS relating to United States History since Reconstruction. Students will prepare for the Advanced Placement test given at the end of the course. This course will fulfill the United States history graduation requirement. (A3340100) (TAMH31)

**World Geography Studies, Grades 9-12, 1 Credit [Regular] [Pre-AP]**

Students study the interaction of people and their physical environments in the major areas of the world. Content introduces the student to the world of geographers, their unique vocabulary, tools, and methodologies, the physical setting of the earth, different landforms and regions of the world, people and geography impact each other, and techniques of urban analysis. (03320100) (TWGR11) (TWGH11)

**World History Studies, Grades 9-12, 1 Credit [Regular] [Pre-AP]**

This course content includes the development of early civilizations, western civilization, and other world regions from their early days to the present. The course provides students the opportunity to compare and analyze various ways of life and cultural patterns that reflect the diversity and commonality of human experiences and the understanding of how these patterns occur. Geographic influences on world history are a part of the study. (03340400) (TWHR11) (TWHH11)

**AP World History, Grades 9-12, 1 Credit [Advanced Placement] [Pre-IB International Scholars–LHS]**

The students will develop greater understanding of the evolution of global process and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies, and emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Students will gain preparation for the Advanced Placement test given at the end of the course. Content requirements for AP World History are prescribed in the College Board Course Description and TEKS related to World History Studies. This course vertically aligns with AP and IB social studies courses. (A3370100) (TWAH21)

# FINE ARTS

## Dance

**VIRTUAL FTF\*** courses are subject to room spacing/capacity using social distancing guidelines. Online students choosing a fine arts course with a face-to-face option will be accommodated after individuals selecting full-time, on-campus learning.

### **Dance I, Grades 9-12, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This is a general dance course to introduce students to the different genres of dance. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are not required to attend sectionals, performances, and other scheduled rehearsals outside of the school day, but are encouraged to do so. Prerequisite: Previous dance experience recommended (03830100) (PPDR11) (LHS) (EHS)

### **Dance II, Grades 10-12, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This is a general dance course in which students will dig deep into the purpose and technicality of several styles of dance. This course builds on the knowledge and skills required in Dance I. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are not required to attend sectionals, performances, and other scheduled rehearsals outside of the school day, but are encouraged to do so. Prerequisite: Dance I or with instructor approval (03830200) (PPDR21) (LHS) (EHS)

### **Dance III, Grades 11-12, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This is a general dance course in which students will dig deep into the purpose and technicality of several styles of dance. This course builds on the knowledge and skills required in Dance II. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are not required to attend sectionals, performances, and other scheduled rehearsals outside of the school day, but are encouraged to do so. Prerequisite: Dance II or with instructor approval (03830300) (PPDR31) (LHS) (EHS)

### **Dance IV, Grade 12, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This is a general dance course in which students will dig deep into the purpose and technicality of several styles of dance. This course builds on the knowledge and skills required in Dance III. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are not required to attend sectionals, performances, and other scheduled rehearsals outside of the school day, but are encouraged to do so. Prerequisite: Dance III or with instructor approval (03830400) (PPDR41) (LHS) (EHS)

### **IB Dance I, Grade 11, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

The SL IB dance course takes a holistic approach to dance and embraces a variety of dance traditions and dance cultures- past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. Prerequisite: Dance I or with instructor approval (I3830100) (IDAN31) (LHS)

### **IB Dance II, Grade 12, 1/2 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

The HL IB dance course takes a holistic approach to dance and embraces a variety of dance traditions and dance cultures- past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become

**VIRTUAL Edgenuity**

**VIRTUAL Asynchronous**

**VIRTUAL Synchronous**

**VIRTUAL FTF**

choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance.

Prerequisite: IB Dance SL (I3830200) (IDAN41) (LHS)

**Folklorico I, Grades 9-12, 1/2 1 Credit VIRTUAL FTF**

Students will gain experience in the dance techniques of Mexican Folklore focusing mostly on the state of Jalisco, Mexico. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Participation in public performance is required and purchase of own folkloric shoes. This course may be repeated for credit. Prerequisite: Instructor approval (03830100) (PFLR11) (LHS)

**Folklorico II, Grades 10-12, 1/2 1 Credit VIRTUAL FTF**

Students will gain experience in the dance techniques of Mexican Folklore focusing mostly on the state of Jalisco, Mexico. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Participation in public performance is required and purchase of own folkloric shoes. This course may be repeated for credit. Prerequisite: Instructor approval (03830200) (PFLR21) (LHS)

**Folklorico III, Grades 11-12, 1/2 1 Credit VIRTUAL FTF**

Students will gain experience in the dance techniques of Mexican Folklore focusing mostly on the state of Jalisco, Mexico. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Participation in public performance is required and purchase of own folkloric shoes. This course may be repeated for credit. Prerequisite: Instructor approval (03830300) (PFLR31) (LHS)

**Folklorico IV, Grades 9-12, 1/2 1 Credit VIRTUAL FTF**

Students will gain experience in the dance techniques of Mexican Folklore focusing mostly on the state of Jalisco, Mexico. Students will focus on perception of body movement, artistic expression and performance, historical and cultural relevance, and critical evaluation. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Participation in public performance is required and purchase of own folkloric shoes. This course may be repeated for credit. Prerequisite: Instructor approval (03830400) (PFLR41) (LHS)

## **Music**

**VIRTUAL FTF\*** courses are subject to room spacing/capacity using social distancing guidelines. Online students choosing a fine arts course with a face-to-face option will be accommodated after individuals selecting full-time, on-campus learning.

**Applied Music I, Grades 9-12, 1/2-1 Credit (03152500) (NPLR11) VIRTUAL FTF**

**Applied Music II, Grades 9-12, 1/2-1 Credit (03152600) (NPLR21) VIRTUAL FTF**

**Applied Music III, Grades 9-12, 1/2-1 Credit (03152601) (NPLR31) VIRTUAL FTF**

**Applied Music IV, Grades 9-12, 1/2-1 Credit (03152602) (NPLR41) VIRTUAL FTF**

Designed for students who desire a more individual approach. Applied Music students develop their intellect and refine their emotions, understanding the cultural and creative nature of musical artistry and making connections among music, the other arts, technology, and other aspects of social life. This course is self-paced under the guidance of a director and caters to band, orchestra, and choir students. This class provides students the opportunity to receive individual and/or small group instruction in preparation for UIL and TMEA competitions. Curriculum will be individualized to student needs and goals. Prerequisite: Concurrent enrollment in band, choir, or orchestra and with director approval.

**IB Music SL, Grades 11-12, 1 Credit [International Baccalaureate] VIRTUAL Synchronous**

This course is for the serious IB music student. This course gives students the opportunity to explore the diversity of music from different parts of the world, different genres, and different styles. Students will be expected to demonstrate the use of appropriate musical language and terminology to describe and reflect their critical understanding of music; the development of perceptual skills in response to music; knowledge and understanding of music in relation to time and place. In addition standard level candidates will be expected to demonstrate one of the following: development of their performance skills through solo or ensemble music making, or development of their compositional skills through exploration and investigation of musical elements. Prerequisite: Previous musical experience in band, choir, or orchestra and an IB diploma candidate. (I3250200) (IMUS31) (LHS)

**IB Music HL, Grade 12, 1 Credit [International Baccalaureate] VIRTUAL Synchronous**

This advanced music course is the second year of a two year program. Students will continue their investigation of a range of musical examples chosen to develop their aural perception. Students will learn about musical structure, function and expressive character; musical elements: melody, harmony, rhythm, texture, tone color; musical terminology and notations; and historical and cultural contexts. Students will be expected to demonstrate: development of their performance skills through solo music making; development of their compositional skills through exploration and investigation of musical elements; use of appropriate musical language and terminology to describe and reflect their critical understanding of music; development of perceptual skills in response to music; and knowledge and understanding of music in relation to time and place. Prerequisite: IB Music SL and an IB diploma candidate. (I3250300) (IMUS41) (LHS)

**Music Theory AP, Grades 11-12, 1 Credit [Advanced Placement] VIRTUAL Synchronous**

This course is designed to focus on advanced aural and written musical skills. Material covered is typically taught at a college freshman level. Students planning to study music at the college level will find this in-depth study and preparation essential. The expected outcome of this course is to prepare students for success on the Advanced Placement Music Theory exam. Prerequisite: Two years of experience in band, orchestra, choir, mariachi, or piano and Instructor approval. (A3150200) (NTHR21)

**BAND**

**Concert Band I, Grade 9, 1/2-1 Credit (03150100) (NCRR11) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Concert Band II, Grade 10, 1/2-1 Credit (03150200) (NCRR21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Concert Band III, Grade 11, 1/2-1 Credit (03150300) (NCRR31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Concert Band IV, Grade 12, 1/2-1 Credit (03150400) (NCRR41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This course is designed for students with entry level wind, brass, and percussion instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble performs collectively with the entire band program for such events as football games, pep assemblies, parades, marching contests, and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are strongly encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**VIRTUAL Edgenuity**

**VIRTUAL Asynchronous**

**VIRTUAL Synchronous**

**VIRTUAL FTF**

**Symphonic Band I, Grade 9, 1/2-1 Credit (03150100) (NSYR11) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Symphonic Band II, Grade 10, 1/2-1 Credit (03150200) (NSYR21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Symphonic Band III, Grade 11, 1/2-1 Credit (03150300) (NSYR31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Symphonic Band IV, Grade 12, 1/2-1 Credit (03150400) (NSYR41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This course is designed for students with intermediate wind, brass, and percussion instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble performs collectively with the entire band program for such events as football games, pep assemblies, parades, marching contests, and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Wind Ensemble I, Grade 9, 1/2-1 Credit (03150100) (NBIR11) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Wind Ensemble II, Grade 10, 1/2-1 Credit (03150200) (NBIR21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Wind Ensemble III, Grade 11, 1/2-1 Credit 03150300) (NBIR31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Wind Ensemble IV, Grade 12, 1/2-1 Credit (03150400) (NBIR41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This course is designed for students with advanced wind, brass, and percussion instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble performs collectively with the entire band program for such events as football games, pep assemblies, parades, marching contests, and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Color Guard I, Grade 9, 1/2-1 Credit (03150100) (NBCG11) VIRTUAL FTF**

**Color Guard II, Grade 10, 1/2-1 Credit (03150200) (NBCG21) VIRTUAL FTF**

**Color Guard III, Grade 11, 1/2-1 Credit (03150300) (NBCG31) VIRTUAL FTF**

**Color Guard IV, Grade 12, 1/2-1 Credit (03150400) (NBCG41) VIRTUAL FTF**

This course is designed for students participating in band as a color guard member. Students will focus on performance skills, body movement, and various flag techniques. In addition to working as a singular group for fall and spring competitions, this group performs collectively with the marching band program for such events as football games, pep

assemblies, parades, marching contests, and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Previous experience in dance or gymnastics is recommended, but not required. Prerequisite: (Auditioned) Enrollment with director approval.

**Jazz Band Intermediate I, Grades 9-12, 1/2-1 Credit (03151300) (NSBR11) VIRTUAL FTF**

**Jazz Band Intermediate II, Grades 10-12, 1/2-1 Credit (03151400) (NSBR21) VIRTUAL FTF**

**Jazz Band Intermediate III, Grades 11-12, 1/2-1 Credit (03151500) (NSBR31) VIRTUAL FTF**

**Jazz Band Intermediate IV, Grade 12, 1/2-1 Credit (03150600) (NSBR41) VIRTUAL FTF**

This intermediate course is designed for students with advanced instrumental skills centered in the medium of modern jazz music. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to participating in UIL events, this ensemble performs for multiple community events and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Prerequisite: (Auditioned) Enrollment with director approval. Concurrent enrollment in band or orchestra.

**Jazz Band Advanced I, Grades 9-12, 1/2-1 Credit (03151300) (NSBR51) VIRTUAL FTF**

**Jazz Band Advanced II, Grades 10-12, 1/2-1 Credit (03151400) (NSBR61) VIRTUAL FTF**

**Jazz Band Advanced III, Grades 11-12, 1/2-1 Credit (03151500) (NSBR71) VIRTUAL FTF**

**Jazz Band Advanced IV, Grade 12, 1/2-1 Credit (03151600) (NSBR81) VIRTUAL FTF**

This advanced course is designed for students with advanced instrumental skills centered in the medium of modern jazz music. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to participating in UIL events, this ensemble performs for multiple community events and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Prerequisite: (Auditioned) Enrollment with director approval. Concurrent enrollment in band or orchestra.

## CHOIR

**Treble Choir I, Grade 9, 1/2-1 Credit (03150900) (NCTR11) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Treble Choir II, Grade 10, 1/2-1 Credit (03151000) (NCTR21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Treble Choir III, Grade 11, 1/2-1 Credit (03151100) (NCTR31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Treble Choir IV, Grade 12, 1/2-1 Credit (03151200) (NCTR41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This treble choir is for students with entry level skills in choral singing and sight-reading. Students will focus on the development of music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. Participation in concert programs and UIL Concert and Sight-Reading Evaluations is required to fulfill all course objectives. After school rehearsals are required based on program scheduling. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. This is a full year course. Prerequisite: Director placement required.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**VIRTUAL Edgenuity**

**VIRTUAL Asynchronous**

**VIRTUAL Synchronous**

**VIRTUAL FTF**

**Concert Treble Choir I, Grade 9, 1/2-1 Credit (03150900) (NCR11) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Treble Choir II, Grade 10, 1/2-1 Credit (03151000) (NCR21) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Treble Choir III, Grade 11, 1/2-1 Credit (03151100) (NCR31) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Treble Choir IV, Grade 12, 1/2-1 Credit (03151200) (NCR41) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

This treble choir is for students with intermediate skills in choral singing and sight-reading. Students will focus on the continued development of music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. Participation in concert programs and UIL Concert and Sight- Reading Evaluations is required to fulfill all course objectives. After school rehearsals are required based on program scheduling. Members are strongly encouraged to participate in All-Region auditions and UIL Solo and Ensemble. This is a full year course. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Concert Tenor-Bass Choir I, Grade 9, 1/2-1 Credit (03150900) (NCOR11) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Tenor-Bass Choir II, Grade 10, 1/2-1 Credit (03151000) (NCOR21) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Tenor-Bass Choir III, Grade 11, 1/2-1 Credit (03151100) (NCOR31) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Tenor-Bass Choir IV, Grade 12, 1/2-1 Credit (03151200) (NCOR41) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

This tenor-bass choir is for students with entry level or intermediate skills in choral singing and sight-reading. Students will focus on the development of music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. Participation in concert programs and UIL Concert and Sight-Reading Evaluations is required to fulfill all course objectives. After school rehearsals are required based on program scheduling. Members are strongly encouraged to participate in All-Region auditions and UIL Solo and Ensemble. This is a full year course. Prerequisite: Director placement required.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Mixed Choir II, Grade 10, 1/2-1 Credit (03151000) (NCRM21) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Mixed Choir III, Grade 11, 1/2-1 Credit (03151100) (NCRM31) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Mixed Choir IV, Grade 12, 1/2-1 Credit (03151200) (NCRM41) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

This mixed choir is for students with advanced skills in choral singing and sight-singing. Students will continue to focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. Participation in concert programs and UIL Concert and Sight-Reading Evaluations is required to fulfill all course objectives. After school rehearsals are required based on program scheduling. Members are strongly encouraged to

**VIRTUAL Edgenuity**

**VIRTUAL Asynchronous**

**VIRTUAL Synchronous**

**VIRTUAL FTF**

participate in All-Region auditions and UIL Solo and Ensemble. This is a full year course. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Vocal Ensemble II, Grade 10, 1/2-1 Credit (03152200) (NCVR21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Vocal Ensemble III, Grade 11, 1/2-1 Credit (03152300) (NCVR31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Vocal Ensemble IV, Grade 12, 1/2-1 Credit (03152400) (NCVR41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This elite ensemble will perform in a variety of settings. After school rehearsals may be required. Prerequisite: (Auditioned) Enrollment with director approval. Concurrent enrollment in Mixed Choir.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Show/Jazz Choir I, Grade 9, 1/2-1 Credit (03152100) (NCSR11) VIRTUAL FTF**

**Show/Jazz Choir II, Grade 10, 1/2-1 Credit (03152200) (NCSR21) VIRTUAL FTF**

**Show/Jazz Choir III, Grade 11, 1/2-1 Credit (03152300) (NCSR31) VIRTUAL FTF**

**Show/Jazz Choir IV, Grade 12, 1/2-1 Credit (03152400) (NCSR41) VIRTUAL FTF**

This ensemble will perform in a variety of settings. After school rehearsals may be required. Prerequisite: (Auditioned) Enrollment with director approval. Concurrent enrollment in primary choir course.

## **MARIACHI**

**Mariachi Intermediate I, Grade 9, 1/2-1 Credit (03153800) (NOMR11) VIRTUAL FTF**

**Mariachi Intermediate II, Grade 10, 1/2-1 Credit (03153900) (NOMR21) VIRTUAL FTF**

**Mariachi Intermediate III, Grade 11, 1/2-1 Credit (03154000) (NOMR31) VIRTUAL FTF**

**Mariachi Intermediate IV, Grade 12, 1/2-1 Credit (03154100) (NOMR41) VIRTUAL FTF**

This intermediate course is designed for students with guitar, vihuela, guitarrón, trumpet, or violin instrumental skills centered in the medium of Mexican folk music. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to participating in UIL events, this ensemble performs for multiple community events and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Prerequisite: (Auditioned) Enrollment with director approval. (LHS)

**Mariachi Advanced I, Grade 9, 1/2-1 Credit (30153800) (NOMA11) VIRTUAL FTF**

**Mariachi Advanced II, Grade 10, 1/2-1 Credit (30153900) (NOMA21) VIRTUAL FTF**

**Mariachi Advanced III, Grade 11, 1/2-1 Credit (30154000) (NOMA31) VIRTUAL FTF**

**Mariachi Advanced IV, Grade 12, 1/2-1 Credit (30154100) (NOMA41) VIRTUAL FTF**

This advanced course is designed for students with guitar, vihuela, guitarrón, trumpet, or violin instrumental skills centered in the medium of Mexican folk music. Students will focus on music literacy, creative expression, historical and cultural

**VIRTUAL Edgenuity**

**VIRTUAL Asynchronous**

**VIRTUAL Synchronous**

**VIRTUAL FTF**

relevance, and critical evaluation and response of performance. In addition to participating in UIL events, this ensemble performs for multiple community events and other festivals as deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Prerequisite: (Auditioned) Enrollment with director approval. (LHS)

## **ORCHESTRA**

**Concert Orchestra I, Grade 9, 1/2-1 Credit (03150500) (NORR11) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Orchestra II, Grade 10, 1/2-1 Credit (03150600) (NORR21) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Orchestra III, Grade 11, 1/2-1 Credit (03150700) (NORR31) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**Concert Orchestra IV, Grade 12, 1/2-1 Credit (03150800) (NORR41) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

This course is designed for students with entry level violin, viola, cello, and bass instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble often performs collectively with the entire orchestra program for additional events deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**String Orchestra I, Grade 9, 1/2-1 Credit (03150500) (NOSR11) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**String Orchestra II, Grade 10, 1/2-1 Credit (03150600) (NOSR21) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**String Orchestra III, Grade 11, 1/2-1 Credit (03150700) (NOSR31) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

**String Orchestra IV, Grade 12, 1/2-1 Credit (03150800) (NOSR41) **VIRTUAL FTF** or **VIRTUAL Asynchronous (with director approval)****

This course is designed for students with intermediate violin, viola, cello, and bass instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble often performs collectively with the entire orchestra program for additional events deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

**Chamber Orchestra I, Grade 9, 1/2-1 Credit (03150500) (NOCH11) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Chamber Orchestra II, Grade 10, 1/2-1 Credit (03150600) (NOCH21) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Chamber Orchestra III, Grade 11, 1/2-1 Credit (03150700) (NOCH31) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

**Chamber Orchestra IV, Grade 12, 1/2-1 Credit (03150800) (NOCH41) VIRTUAL FTF or VIRTUAL Asynchronous (with director approval)**

This course is designed for students with advanced violin, viola, cello, and bass instrumental skills. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. In addition to working as a singular group for concerts and UIL Concert and Sight Reading Evaluation, this ensemble often performs collectively with the entire orchestra program for additional events deemed appropriate by the director. Students are required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Members are encouraged to participate in All-Region auditions and UIL Solo and Ensemble. Prerequisite: (Auditioned) Enrollment with director approval.

**For students unable to attend FTF** - Only with director approval will online students be allowed to earn credit in this course through alternative, but equitable instructional guidelines. Such parameters are set on a case-by-case basis to ensure individualized needs and goals are met. Such arrangements will remain in effect until the student is physically able to attend face-to-face.

## PIANO

**Piano I, Grades 9-12, 1 Credit (03154200) (NPIA11) VIRTUAL FTF**

**Piano II, Grades 10-12, 1 Credit (03154300) (NPIA21) VIRTUAL FTF**

**Piano III, Grades 11-12, 1 Credit (03154400) (NPIA31) VIRTUAL FTF**

**Piano IV, Grade 12, 1 Credit (03154500) (NPIA41) VIRTUAL FTF**

This course is a course for piano students. Students will focus on music literacy, creative expression, historical and cultural relevance, and critical evaluation and response of performance. Students performs for multiple community events and other festivals as deemed appropriate by the director. Students may be required to attend all sectionals, performances, and other scheduled rehearsals outside of the school day. Prerequisite: None (LHS) (Talkington)

## Theatre Arts

**VIRTUAL FTF\*** courses are subject to room spacing/capacity using social distancing guidelines. Online students choosing a fine arts course with a face-to-face option will be accommodated after individuals selecting full-time, on-campus learning.

### **Technical Theatre I, Grades 9-12, 1/2-1 Credit VIRTUAL FTF**

Students in this course develop skills and techniques to operate various theatre equipment, build scenery, properties and costumes and/or function as publicity crew. In addition, design components will be emphasized. Enrollment is limited due to safety requirements. After school and weekend participation as well as participation in theatre events throughout the year may be required. Prerequisite: Middle School Intermediate Theatre or with director approval. (03250500) (LCTR21)

### **Technical Theatre II, Grades 10-12, 1/2-1 Credit VIRTUAL FTF**

Students in this course study design as it relates to scenery, properties, lighting, sound costume, make up and public relations. Enrollment is limited due to safety requirements. Production participation to include after school and some weekend activities may be required. Prerequisite: Previous level to enroll in Technical Theatre II or with director approval. (03250600) (LCTR31)

### **Technical Theatre III, Grades 11-12, 1/2-1 Credit VIRTUAL FTF**

This course emphasizes scenic design, properties, lighting, sound, costume, makeup and publicity. In addition, theatre management is studied for production participation. This course also allows students to design projects and materials for professional portfolios for application to college/university theatre programs and/ or for a theatre career. Students are also trained in media communication and interview techniques in order to present portfolios to college/university theatre programs and should participate in technical theatre auditions at various conferences, college/university visitations and community theaters. Technical Theatre III students are required to participate in productions which require after school and some weekend rehearsals/performances. Prerequisite: Technical Theatre II or with director approval. (03251100) (LCTR41)

### **Technical Theatre IV, Grade 12, 1/2-1 Credit VIRTUAL FTF**

This course emphasizes scenic design, properties, lighting, sound, costume, makeup and publicity. In addition, theatre management is studied for production participation. This course also allows students to design projects and materials for professional portfolios for application to college/university theatre programs and/ or for a theatre career. Students are also trained in media communication and interview techniques in order to present portfolios to college/university theatre programs and should participate in technical theatre auditions at various conferences, college/university visitations and community theaters. Technical Theatre IV students are required to participate in productions which require after school and some weekend rehearsals/performances. Prerequisite: Technical Theatre III or with director approval. (03251200) (LCTR51)

### **Theatre I, Grades 9-12, 1/2-1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This course focuses on the development of performance skills, acting techniques, and the survey study of dramatic literature. In addition, technical theatre elements such as design techniques will be introduced. Production is studied and applied through in-class performance of various monologues, scenes and short plays throughout the year. Theatre I may audition and/or interview for a crew position which may require after school and weekend participation. Prerequisite: None, middle school theatre participation recommended (03250100) (LCPR11)

### **Theatre II, Grades 10-12, 1/2-1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

Students in this course study the cultural contributions of theatre and continues to explore production styles and techniques through advanced acting, directing and production applications. Students are also trained in audition techniques for college/university application. Students are encouraged to audition for productions which require after

school and some weekend rehearsals/performance participation. Prerequisite: Theatre I or Theatre Production I (03250200) (LCPR21)

**Theatre III, Grades 11-12, 1/2-1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

Students in this course study the cultural contributions of theatre and continues to explore production styles and techniques through advanced acting, directing and production applications. Students are also trained in audition techniques for college/university application. Theatre Arts III students should participate in auditions at various conferences, college/university visitations and community theaters throughout the year. Theatre Arts III are strongly encouraged to audition and participate in productions which require after school and some weekend rehearsals/performances. Prerequisite: Theatre II or Theatre Production II (03250300) (LCPR31)

**Theatre IV, Grade 12, 1/2-1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

Students in this course study the cultural contributions of theatre and continues to explore production styles and techniques through advanced acting, directing and production applications. Students are also trained in audition techniques for college/university application. Theatre Arts IV students should participate in auditions at various conferences, college/university visitations and community theaters throughout the year. Theatre Arts IV are strongly encouraged to audition and participate in productions which require after school and some weekend rehearsals/performances. Prerequisite: Theatre III or Theatre Production III (03250400) (LCPR41)

**IB Theatre Arts SL/HL, Grades 11-12, 1 Credit [International Baccalaureate] VIRTUAL Synchronous or VIRTUAL FTF**

This class synthesizes the goals of the upper level theatre arts classes into a more comprehensive study of dramaturgy, combined with acting technique and performance opportunities. Students explore acting styles in theatre history and scene performance, investigate noted theoreticians, refine audition technique with particular emphasis on auditioning for college, prepare personal vitas, apply psychological and physical performance situations, emphasizing specialized theatrical styles. Aesthetic growth through live theatre attendance and development of critical analysis and play analysis skills are also emphasized. A variety of guest artists will identify career opportunities and provide instruction in special techniques. This course leads to the IB standard level examination in Theatre Arts. Prerequisite: Previous experience in Theatre. Student must be in the IB Diploma Program to enroll in this class. (I3750200) (ITHA31) (LHS)

**IB Theatre Arts HL, Grade 12, 1 Credit [International Baccalaureate] VIRTUAL Synchronous or VIRTUAL FTF**

Year two of a multifaceted theatre-making course of study. It gives students the opportunity to make theatre as creators, designers, directors, and performers. It emphasizes the importance of working both individually and collaboratively as part of an ensemble. It offers the opportunity to engage actively in the creative process, transforming ideas into action as inquisitive and productive artists. Students experience the course from contrasting artistic perspectives. They learn to apply research and theory to inform and to contextualize their work. The theatre course encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre—as participants and audience members—they gain a richer understanding of themselves, their community and the world. Prerequisite: Completion of IB Theatre Arts SL. Student must be in the IB Diploma Program to enroll in this class. (I3750300) (ITHA41) (LHS)

**Theatre Production I, Grades 9-12, 1/2-1 Credit VIRTUAL FTF**

Theatre Production I emphasizes a more rigorous study of performance styles and techniques for those students who have had two to three years of theatre training at the middle school. Students will also be introduced to technical theatre elements which are relevant to the style of the scene or script in study for performance. Students will participate in productions throughout the year which require after school and weekend rehearsals. Prerequisite: Middle School Intermediate Theatre and audition/interview with director approval. (03250700) (LCRR21)

**Theatre Production II, Grades 10-12, 1/2-1 Credit VIRTUAL FTF**

Theatre Production courses provide a laboratory experience for the development and implementation of the various theatre components which lead to production activities. Students are required to participate in after school and weekend activities and all theatre productions throughout the year. In addition, students are trained to function as a theatre management team for a variety of performances. Students may also be introduced to a variety of media communication techniques. Students are trained in audition, portfolio and interview techniques for potential application to college/university programs. Prerequisite: Theatre Arts I, or Theatre Production I or Technical Theatre I. Audition/interview with director is required. (03250800) (LCRR31)

**Theatre Production III, Grades 11-12, 1/2-1 Credit VIRTUAL FTF**

Theatre Production courses provide a laboratory experience for the development and implementation of the various theatre components which lead to production activities. Students are required to participate in after school and weekend activities and all theatre productions throughout the year. In addition, students are trained in media communication techniques and to function as a theatre management team for a variety of performances. Students are trained in audition, portfolio and interview techniques for application to college/ university programs and may attend outside audition opportunities through conference attendance, college/ university visitations, and community theaters. Prerequisite: Theatre Arts II, or Theatre Production II, or Technical Theatre II. Audition/Interview with director is required. (03250900) (LCRR41)

**Theatre Production IV Grade 12, 1/2-1 Credit VIRTUAL FTF**

Theatre Production courses provide a laboratory experience for the development and implementation of the various theatre components which lead to production activities. Students are required to participate in after school and weekend activities and all theatre productions throughout the year. In addition, students are trained in media production techniques and to function as a theatre management team for a variety of performances. Students are trained in audition, portfolio and interview techniques for application to college/university programs and should attend outside audition opportunities through conference attendance, college/university visitations and community theaters. Prerequisite: Theatre Arts III, or Theatre Production III, or Technical Theatre III. Audition/Interview with director is required. (03251000) (LCRR51)

## Visual Arts

**VIRTUAL FTF\*** courses are subject to room spacing/capacity using social distancing guidelines. Online students choosing a fine arts course with a face-to-face option will be accommodated after individuals selecting full-time, on-campus learning.

**Art Appreciation, Grades 10-12, 1 Credit [Dual Credit] [Weighted Credit] VIRTUAL Synchronous or VIRTUAL FTF**

This course is designed to enhance the student's appreciation of art by introducing them to the basic vocabulary of art and various media. Students will be introduced to the stylistic features of historical art periods and regions of world art. Students will develop skills necessary to interpret and speak intelligently about the purpose and meaning of art. Prerequisite: Instructor approval required, previous art instruction not required (03500110) (AAPH11) (EHS, LHS)

**Art I Introduction to Art, Grades 9-12, 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This course is an introduction to the elements and principles of design as applied to art history, drawing, painting, graphic arts, and crafts. Prerequisite: 0-1 years of middle school Art or middle school 3D Studio (formerly Crafts) (03500100) (ARTR11)

**Art I Studio, Grades 9-12, 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This course is a continuation of the elements and principles of art and design as applied to art history, drawing, painting, graphic arts, and crafts. Prerequisite: Two years of middle school Art and/or middle school 3D Studio (formerly Crafts), or high school Art I Introduction to Art (03500100) (ARTR31)

**Art II 2D, Grades 10-12, 1 Credit VIRTUAL Synchronous or VIRTUAL FTF**

This is a study of the elements and principles of design as they relate to completed compositions. Emphasis is on acquiring and furthering skills in drawing, painting, designing, sculpting, and art appreciation. This course builds on the knowledge and skill acquired in Art I Studio. Prerequisite: Art I Studio or Art I Introduction to Art with instructor approval. (03500500) (ARTR21)

**Art II 3D, Grades 10-12, 1 Credit VIRTUAL FTF**

This is a course in which students will develop more advanced skills using 3-dimensional techniques and media. Students will create many works of art using a variety of 3D materials and will investigate artists, styles, movements, and cultures. This course provides a study of basic through advanced techniques of designing, decorating, glazing, and firing clay objects; and is a survey of related art history. Three processes are studied: hand modeling, sculpting, and using a potter's wheel. This course builds on the knowledge and skills acquired in Art I Studio. Prerequisite: Art I Studio or Art I Introduction to Art with instructor approval (03500900) (ACER21)

**Art II Photography, Grades 10-12, 1 Credit VIRTUAL Asynchronous**

Students will learn to understand and control a digital camera and learn vocabulary of art and photography as an art form. In addition to investigation of basic skills in picture making, students will examine color theory and composition. They will also investigate master artists in photography. Studio practices will include digital shooting and editing for specific projects and applications. Students will have the opportunity to participate in area, state and national contests. Students will need access to a digital camera (either a dslr or a late model smart phone with a camera that can shoot in manual mode). Prerequisite: Art I Introduction to Art or Art I Studio (03501200) (APHR21) (LHS)

**Art III Art History AP, Grades 11-12, 1 Credit [Advanced Placement] [Dual Credit-EECHS] VIRTUAL Synchronous**

This course is an introductory college art history survey. Students will develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting, and other media, along with examining and critically analyzing major forms of artistic expression. Not offered on all campuses. Prerequisite: Art I Introduction to Art or Art I Studio or Art Appreciation or with instructor approval (A3500100) (AFAH31) (03500300) (AFAD31)

**Art III Ceramics, Grades 11-12, 1 Credit VIRTUAL FTF**

This course provides a study of basic through advanced techniques of designing, decorating, glazing, and firing clay objects, as well as a survey of related art history. Three processes are studied: hand modeling, sculpting, and using a potter's wheel. This course builds on the skills acquired in Art II. Prerequisite: Art II 3D or Art II 2D with instructor approval or AP Drawing Portfolio with instructor approval. (03501800) (ACER31)

**Art III Drawing, Grades 11-12, 1 Credit VIRTUAL Synchronous**

This is a studio course in which students will concentrate on developing drawing skills. Drawings will focus on the areas of still life, observational drawing, landscape, abstract, and life drawing. Life drawing includes the area of the human form, from a study of the anatomy, the skeleton, muscles, and individual features. Study and critiques in paintings will be followed by the use of live, posed models. Prerequisite: Art II 2D or Art II 3D with instructor approval or AP Drawing Portfolio with instructor approval (03501300) (ALDR31)

**Art III Jewelry, Grades 11-12, 1 Credit VIRTUAL FTF**

This course is an introduction to basic techniques used in metal smithing and jewelry making with an emphasis on design and technique. The objective of the course is to enable students to explore a variety of media including metals and found objects as aesthetic expression in jewelry production. This course builds on knowledge and skills acquired in Art I Studio and Art II. Prerequisite: Art II 3D or Art II 2D with instructor approval or AP Drawing Portfolio with instructor approval. (03502000) (AJFR31)

**Art III Painting, Grades 11-12, 1 Credit VIRTUAL FTF**

This course is a study of painting using a large variety of media, and includes study and appreciation of painting styles through the centuries and advanced color theory. It builds on knowledge and skills acquired in Art I Studio and Art II. Students learn to display their work for exhibit. Prerequisite: Art II 2D or Art II 3D with instructor approval or AP Drawing Portfolio with instructor approval. (03501400) (APAR31)

**Art III Photography, Grades 11-12, 1 Credit VIRTUAL Asynchronous**

Students will continue expanding their knowledge of digital photographic techniques. They will continue the study of the history of photography as a fine art and the Masters of the art form. Students will use specific applications of skills and techniques as is relevant to the making of pictures. Studio practices include digital shooting, editing, specific projects and applications, class critiques, and reflections. Students will have the opportunity to participate in area, state, and national contests. Students will need access to a digital camera (either a dslr or a late model smart phone with a camera that can shoot in manual mode). Prerequisite: Art II Photography or with instructor approval. (03502200) (APHR31) (LHS)

**Art III Printmaking, Grades 11-12, 1 Credit VIRTUAL FTF**

This course is a study of many types of printmaking. The course emphasizes the implementation of elements and principles of design in prints and a study of prints made by artists from across the centuries. It builds on the skills acquired in Art I Studio and Art II. Prerequisite: Art II 2D or Art II 3D with instructor approval or AP Drawing Portfolio with instructor approval. (03501500) (APMR31)

**Art III Sculpture, Grades 11-12, 1 Credit VIRTUAL FTF**

This is a studio art course in which students work independently to develop their skills in sculpting in one or more of the following methods: round, relief, modeled, carved, cast, or assembled. This course builds on the knowledge and skills acquired in Art II. Prerequisite: Art II 3D or Art II 2D with instructor approval or AP Drawing Portfolio with instructor approval. (03501900) (ASCR31)

**Art IV Ceramics, Grade 12, 1 Credit VIRTUAL FTF**

This course provides a study of advanced techniques of designing, decorating, glazing, and firing clay objects, as well as a survey of related art history. Three processes are studied: hand modeling, sculpting, and using a potter's wheel. This course builds on the skills acquired in Art III. Prerequisite: Art III Ceramics or AP 3D Design Portfolio with instructor approval (03502700) (ACER41)

**Art IV Drawing - Grade 12, 1 Credit VIRTUAL Synchronous**

This course is a study of advanced drawing using a large variety of media, and includes study and appreciation of drawing styles through the centuries and advanced drawing skills. It builds on knowledge and skills acquired in Art III. Students learn to display their work for exhibit. Prerequisite: Art III Drawing or AP 2D Design Portfolio with instructor approval (03502300) (ARTR41)

**Art IV Jewelry, Grade 12, 1 Credit VIRTUAL FTF**

This course is the continuation of advanced techniques used in metal smithing and jewelry making with an emphasis on design and technique. The objective of the course is to enable students to explore a variety of media including metals and found objects as aesthetic expression in jewelry production. This course builds on knowledge and skills acquired in Art III. Prerequisite: Art III Jewelry or AP 3D Design Portfolio with instructor approval (03502900) (AJFR41)

**Art IV Painting, Grade 12, 1 Credit VIRTUAL FTF**

This course is a study of advanced painting using a large variety of media, and includes study and appreciation of painting styles through the centuries and advanced color theory. It builds on knowledge and skills acquired in Art III. Students learn to display their work for exhibit. Prerequisite: Art III Painting or AP 2D Design Portfolio with instructor approval (03502400) (APAR41)

**Art IV Printmaking, Grade 12, 1 Credit VIRTUAL FTF**

This course is a study of advanced types of printmaking. The course emphasizes the continuation of elements and principles of design in prints and a study of prints made by artists from across the centuries. It builds on the skills acquired in Art III. Prerequisite: Art III Printmaking or AP 2D Design Portfolio with instructor approval (03502500) (APMR41)

**Art IV Sculpture, Grade 12, 1 Credit VIRTUAL FTF**

This is a studio art course in which students work independently to develop their skills in sculpting in one or more of the following methods: round, relief, modeled, carved, cast, or assembled. This course builds on the knowledge and skills acquired in Art III. Prerequisite: Art III Sculpture or AP 3D Design Portfolio with instructor approval (03502800) (ASCR41)

**Floral Design and Agricultural Laboratory and Field Experience, Grades 10-12, 2 Credits, [Weighted Credit] VIRTUAL FTF**

Students develop the ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Students prepare to earn the Texas State Floral Association Level 1 Floral Certification. (13001810) (YROH11) (ATC)

**Studio Art AP Drawing Portfolio, Grades 10-12, 1 Credit [Advanced Placement] VIRTUAL Synchronous**

The AP Studio Art Portfolios are designed for students who are seriously interested in the practical experience of art. The drawing portfolio is intended to address a broad spectrum of art made by mark making, including both drawing and painting in its scope. The student creates a portfolio of work demonstrating the artistic skills and ideas they have developed, refined, and applied over the course of the year and submits the portfolio for evaluation by the College Board at the end of the year. Prerequisite: Art I Studio, Art II 2D or 3D with instructor approval (A3500300) (ASAH41)

**Studio Art AP Two-Dimensional Design Portfolio, Grades 11-12, 1 Credit [Advanced Placement] VIRTUAL Synchronous or VIRTUAL FTF**

The AP Studio Art Portfolios are designed for students who are seriously interested in the practical experience of art. The 2D design portfolio involves purposeful decision-making about how to use the elements and principles of design in visual compositions. The student creates a portfolio of work demonstrating the artistic skills and ideas they have developed, refined, and applied over the course of the year and submits the portfolio for evaluation by the College Board at the end of the year. Prerequisite: AP Drawing Portfolio or Art II or III with instructor approval. Recommended: AP Art History prior to or concurrently (A3500400) (ARTH61)

**Studio Art AP Three-Dimensional Design Portfolio, Grades 11-12, 1 Credit [Advanced Placement] VIRTUAL FTF**

The AP Studio Art Portfolios are designed for students who are seriously interested in the practical experience of art. The 3D portfolio is intended to address a broad interpretation of sculptural issues in depth and space. These might include: traditional sculpture, architectural models, apparel, ceramics, jewelry, metalwork, and other 3D media. The student creates a portfolio of work demonstrating the artistic skills and ideas they have developed, refined, and applied over the course of the year and submits the portfolio for evaluation by the College Board at the end of the year. Prerequisite: AP Drawing Portfolio or Art II with instructor approval or Art III with instructor approval. Recommended: AP Art History prior to or concurrently (A3500500) (ARTH71)

**3D Graphic Modeling & Animation, Grades 10-12, 1 Credit [Weighted Credit] (CTE College Credit) VIRTUAL FTF**

3D Graphic Modeling and Animation consists of computer images created in a virtual 3-dimensional environment. 3D Graphic Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; engineering and design; and the movie and the game industries. Students in this course will produce various 3D models of real-world objects. (03580510) (EISH11) (ATC)

**Visual Arts III, Grades 11-12, 1 Credit [International Baccalaureate SL] VIRTUAL Synchronous**

The IB Design II Course is organized into a two-year sequence and encompasses a curriculum of academic investigation in the visual arts, and 2-D and 3-D intermediate and advanced studio art courses. In this program the student will be

exposed to a variety of methods, materials, and themes for continuing their work in the visual arts. Art criticism, art history, and aesthetic theories in art are explored as a vehicle for understanding art and individual expression. The studio emphasis of the course is on creating personal imagery with an area of concentration in subject matter, technique, and media (depth and breadth). The academic emphasis of the IB Art Design course includes, but is not limited to, written assignments, art critiques, individual and group research, exploring and developing thematic direction, and projects relating to global, historical, and cultural developments and understanding. The academic component will result in a research workbook. Study artwork and the research workbook will be presented to IB for assessment. Outside and extracurricular assignments will be required. Students may take the standard level IB examination for Art Design, but it is strongly recommended that students take level IV before taking the standard level exam. Prerequisite: IB Student, Art II or Instructor approval. (I3600200) (IART41) (LHS)

**Visual Arts IV, Grade 12, 1 Credit [International Baccalaureate SL/HL] VIRTUAL Synchronous**

This course is the continuation and the culmination of the IB Visual Arts two-year sequence program and encompasses a rigorous curriculum of academic investigation in the visual arts and advanced level 2-D and 3-D studio art courses. The emphasis of the course is placed on developing a sensitive visual thinking process that will result in artwork that demonstrates technical ability, personal and thematic expression, and understanding of self and others. The culmination of the course consists of two major parts, both of which are compulsory: Part A, Studio Work and Part B, Research Workbook. Each candidate will prepare an exhibition of (and if necessary a demonstration of) approximately 20+ artworks undertaken during the course of their studies. The candidate's art exhibition and workbook will be viewed by and discussed with the assessing examiner appointed by the IB organization. After completion of this course, students may take the standard level or higher level examination in IB Visual Arts. Prerequisite: Visual Arts III IB. (I3600100) (IART51) (I3600200) (IART61) (LHS)

## PHYSICAL EDUCATION

A student may graduate without taking formal physical education classes by completing courses or activities authorized to substitute for physical education. Students may earn no more than four units of credit in physical education toward state graduation requirements, even though the requirement is only one.

Students in Physical Education will acquire movement knowledge and skills that provide the foundation for enjoyment, continued social development through physical education, and practice for living a physically active and healthy lifestyle. Students will exhibit a physically active lifestyle and understand the relationship of physical activity and health. Students may not repeat a course for graduation.

In addition to the courses listed in this section, the following courses or activities may also be substituted for state credited physical education credit:

Junior Reserve Officer Training Corps (JROTC) (RMSR11) (PES00004)  
Pep Squad/Pom (PEPR11/12) (PEPR21/22) (PES00014)  
Cheerleading (PECR11/12) (PECR21/22) (PES00013)  
Marching Band (fall semester only) (NBMR10) (NBMR20) (PES00012)  
Dance (PES00054) (PEDR50) (PEDR60)  
Folklorico (PES00054) (PEDR50) (PEDR60)

### **Adventure/Outdoor Education, 1/2 Credit – Online**

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime. The recommended prerequisite for this course is Foundations of Personal Fitness. (PES00053) (PEDR30) (PEDR40)

### **Aerobic Activities, 1/2 Credit**

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation. The recommended prerequisite for this course is Foundations of Personal Fitness. (PES00054) (PEDR50) (PEDR60)

### **Competitive Athletics, Grades 9-12, 1/2-4 Credits**

Students may participate in football, basketball, tennis, track and field, cross country, golf, baseball, swimming, diving, women's volleyball, soccer, wrestling, and women's softball. Prerequisite: Physical required. (PES00000) (PES00001) (PES00002) (PES00003)

### **Foundations of Personal Fitness, Grades 9-12, 1/2 Credit**

This course is designed to acquaint students with the understanding and meaning of a wellness lifestyle (fitness skills, stress management, nutrition, and recreational leisure). Part of the course will be in the classroom and part will involve physical activity. A fitness test will be administered and used by students to create their own personal workout plan. (PES00052) (PEDR10) (PEDR20)

### **Gymnastics I, Grades 9-12, 1/2-1 Credit**

Activities emphasize the progressive development of basic skills and sound safety practices on each gymnastic apparatus. Girls work on side horse vault, uneven bars, balance beam, and floor exercise. Boys utilize floor exercise, pommel horse, still rings, long horse vault, parallel bars, and horizontal bar. Physical required. (PES00052) (GYMR11) (GYMR12) (LHS)

**Gymnastics II, Grades 10-12, 1/2-1 Credit**

This is a continuation of the beginning course and requires more advanced skills and a higher degree of competence. Emphasis is on the skills and routines used in the high school compulsory exercises. UIL competition is not required but available to those who can qualify. Prerequisite: Beginning Gymnastics or equivalent preparation. Physical required. (PES00053) (GYMR21) (GYMR22) (LHS)

**Gymnastics III, Grades 10-12, 1/2-1 Credit**

The skills taught in this course are more complicated and require a higher degree of competence than the previous course. The primary emphasis at this level will be the development of individual routines on various pieces of equipment. The competitive aspects of tumbling and gymnastics will be covered with emphasis on the Olympic activities. Students will have the opportunity to participate in exhibitions and some competitive meets. This course will concentrate on the following activities: Boys: Horizontal bar, floor exercise, side horse vaulting, long horse vaulting, parallel bars, and rings. Girls: Floor exercises, uneven parallel bars, balance beam, and side horse vaulting. This course may be repeated for credit. Prerequisite: The beginning/intermediate course or similar skill preparation. Physical required. (PES00054) (GYMR31) (GYMR32) (LHS)

**Individual Sports, Grades 9-12, 1/2 Credit**

Students will exhibit a level of skills and strategy competency in two or more individual/dual sports (archery, badminton, bowling, golf, gymnastics, handball, track and field, weight training). This course will continue to place an emphasis on the fitness/wellness concepts and the use of personal workout routines. A fitness test will be administered. (PES00055) (PEDR70) (PEDR80)

## WORLD LANGUAGES

Lubbock ISD offers World Language courses in Spanish at all high schools along with American Sign Language, French, German, and Latin at selected campuses. These courses must be taken in sequence and each course must be passed before the student is promoted to the next level. Students who have second language schooling and/or experience may begin their second language studies at a higher level upon successful completion of a placement exam and the recommendation of their teacher. Computer programming languages (Computer Science\*) also count for World Language credit. Two consecutive credits of the same language meet the World Language requirement for the Foundation Program and the Foundation plus Endorsement Program.

\*Computer Science courses are listed in the Technology Applications section and courses qualifying for World Languages credit are identified in the description.

### **American Sign Language Level I, 1/2 -1 Credit**

American Sign Language I is an introduction to the language and the culture. The main emphasis is on communication while developing receptive and productive skills. The student will be guided in recognizing the interrelationships of languages and will develop a cultural appreciation of the deaf world. The focus of this course will be on novice proficiency. (03980100) (FASR11) (CHS)

### **American Sign Language Level II, 1/2 -1 Credit**

American Sign Language II continues to develop communicative skills. The focus is on mid- to high-novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and sign language strengthens the language learning process. Culturally related activities will be explored. Prerequisite: ASL I or Placement Exam. (03980200) (FASR21) (CHS)

### **French Level I, 1 Credit**

French I is an introductory course to the French world, its language and its people. Students will be taught basic vocabulary, phrases and grammar using the skills of listening, speaking, reading, and writing to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the novice-mid to novice- high level of proficiency. (03410100) (FFRR11) (LHS) (MHS)

### **French Level II, 1 Credit**

French II continues to develop the basic conversational, reading and writing skills taught in Level I, increasing vocabulary and grammar skills to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the novice-high to intermediate low level of proficiency. Prerequisite: French 1 or Placement Exam. (03410200) (FFRR21) (CHS) (LHS) (MHS)

### **French Level II, 1 Credit [Pre-AP] [Pre-IB International Scholars-LHS]**

French II Pre-AP includes the basic content of the French II course. However, student expectations and assessment will be more rigorous, thus encouraging students to begin communicating at an novice high- intermediate-low proficiency level while beginning basic preparation for the French Language Advanced Placement Exam (or other university placement tests). This course vertically aligns with AP and IB world language courses. Prerequisite: French I or earning 80% or higher earned on Placement Exam. (03410200) (FFAH21) (IFRE21) (LHS) (MHS)

### **French Level III, 1 Credit [Pre-AP] [Pre-IB International Scholars-LHS]**

French III Pre-AP is an intermediate level course. Students will continue to develop their communication skills by producing original spoken and written language rather than memorized phrases to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the intermediate low-intermediate mid level of proficiency. They will also begin reading excerpts from French literature and continue preparing for the French Language

Advanced Placement Exam (or other university placement test). This course vertically aligns with AP and IB world language courses. Prerequisite: French II or French II Pre-AP or earning 80% or higher earned on Placement Exam. (03410300) (FFAH31) (IFRE31) (LHS) (MHS)

#### **AP French Level IV, 1 Credit [Advanced Placement]**

French IV AP is a comprehensive advanced level course in the French language. Students will continue refining the skills taught and practiced in the intermediate course, focusing on conversation, advanced vocabulary, advanced writing, and advanced reading skills needed for the French Language Advanced Placement Exam (or other university placement tests). Both students and teacher are expected to use the French language the majority of class time, while meeting the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the intermediate mid-intermediate-high proficiency level. Prerequisite: French III or French III Pre-AP or earning 80% or higher earned on Placement Exam. (A3410100) (FFAH41) (LHS) (MHS)

#### **IB French Level IV, 2 Credits [International Baccalaureate SL]**

At this level, students will perfect their writing skills, become more orally proficient and continue to be exposed to aspects of French culture. Students will be expected to converse in French, and the class will be conducted in French. Students will ameliorate previously acquired skills and will gain confidence in their abilities by the end of the course. Students may take the IB standard level exam after completing this course, but it is strongly recommended that a student take French V IB before taking the exam. Prerequisites: French III Pre-AP and IB student or Placement Exam. (I3410400) (IFRE41) (IFREL1) (LHS)

#### **IB French Level V, 2 Credits [International Baccalaureate SL/HL]**

Students will work to demonstrate their ability to compose well-constructed and idiomatic essays and to comment on texts or topics in relation to content and style. Emphasis will continue to be placed on oral fluency and comprehension. This course leads to the IB standard level or higher level examination in French Language B. Prerequisites: French IV IB and IB student or Placement Exam. (I3410500) (IFRE51) (IFREL2) (LHS)

#### **German Level I, 1 Credit [Regular]**

German I is an introductory course to the German world, its language and its people. Students are taught basic vocabulary, common phrases, and grammar utilizing the skills of listening, speaking, reading, and writing to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the novice- low to novice-mid level of proficiency. (03420100) (FGRR11) (CHS) (LHS)

#### **German Level II, 1 Credit [Regular]**

German II continues to develop the basic conversational, reading, and writing skills taught in Level I, thus increasing vocabulary and grammatical skills to meet the TEKS goals of Communication, Cultures, Connections, Comparison, and Communities at the novice-mid to novice-high level of proficiency. Prerequisite: German I or Placement Exam. (03420200) (FGRR21) (LHS)

#### **German II, 1 Credit [Pre-AP] [Pre-IB International Scholars-LHS]**

German II Pre-AP includes the basic content of the German II course. However, student expectations and assessment will be more rigorous, thus encouraging students to begin communicating at an intermediate- low proficiency level while beginning basic preparation for the German Language Advanced Placement Exam (or other university placement tests). This course vertically aligns with AP and IB world language courses. Prerequisite: German I or Placement Exam. (03420200) (FGAH21) (IGER21) (LHS)

#### **German II, Grades 11-12, 1 Credit [Pre-AP] [Pre-IB International Scholars-LHS]**

German III Pre-AP is an intermediate level course. Students will continue to develop their communication skills by producing original spoken and written language rather than memorizing phrases to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the intermediate level of proficiency. They will

also begin reading excerpts from German literature and continue preparing for the German Language Advanced Placement Exam (or other university placement tests). This course vertically aligns with AP and IB world language courses. Prerequisite: German II or German II Pre-AP or Placement Exam. (03420300) (FGAH31) (IGER31) (CHS) (LHS)

#### **AP German Level IV, 1 Credit [Advanced Placement]**

German IV AP is a comprehensive advanced level course in the German language. Students will continue refining the skills taught and practiced in the intermediate course, focusing on conversation, advanced vocabulary, advanced writing and advanced reading skills needed for the German Language Advanced Placement Exam (or other university placement tests). Both students and teacher are expected to use the German language the majority of class time, while meeting the TEKS goals of Communication, Cultures, Connections, Comparisons and Communities at the intermediate-high proficiency level. Prerequisite: German III Pre-AP or Placement Exam. (A3420100) (FGAH41) (03420500) (FGAH51) (03420600) (FGAH61) (CHS) (LHS)

#### **IB German Level IV, 2 Credits [International Baccalaureate SL]**

The purpose of the course is to advance students' linguistic and cultural competence from an intermediate to an advanced level. Students will acquire the ability to interact meaningfully in German with educated native speakers on a variety of culturally relevant topics. Learning experiences will include, but are not limited to advancing oral fluency, comprehending challenging texts, commenting orally and in writing about these texts, and developing a high-level of listening comprehension. Students may take the IB German Language B SL exam after completing this course, but it is strongly recommended that a student take the next level before taking the exam. Prerequisites: German III Pre-AP and IB or Placement Exam. (I3420400) (IGER41) (IGERL1) (LHS)

#### **IB German Level V, 2 Credits [International Baccalaureate SL/HL]**

Students will work to demonstrate their ability to compose well-constructed and idiomatic essays. Emphasis will continue to be placed on oral fluency, essays, and comprehension. This course leads to the IB Standard Level or Higher Level examination in German Language B. Prerequisites: German IV IB and IB student. (I3420500) (IGER51) (IGERL2) (LHS)

#### **Latin Level I, 1 Credit**

Latin I is designed to introduce students to the world of the ancient Romans through reading and writing. Students will be taught basic Latin grammar and vocabulary, which is reinforced by the study of English derivatives (many of which are tested on the PSAT, SAT, and ACT). This course also covers the fundamentals of the mythology, history, and culture of ancient Rome and Greece. (03430100) (FLTR11) (LHS) (MHS)

#### **Latin Level II, 1 Credit**

Latin II continues the study of the world of the ancient Romans through reading and writing. After a comprehensive review of Latin I, students broaden their knowledge of Latin grammar and vocabulary, which is continually reinforced by the study of English derivatives (many of which are tested on the PSAT, SAT, and ACT). Students also continue their study of more Roman and Greek mythology, history, and culture. Prerequisite: Latin I or Placement Exam. (03430200) (FLTR21) (CHS) (LHS) (MHS)

#### **Latin Level II, 1 Credit [Pre-AP] [Pre-IB International Scholars–LHS]**

Latin II Pre-AP continues the study of the world of the ancient Romans through reading and writing but on a much more rigorous and intense schedule than regular Latin II. After a comprehensive review of Latin I, students broaden their knowledge of Latin grammar and vocabulary, which is continually reinforced by the study of English derivatives (many of which are tested on the PSAT, SAT, and ACT). Students are also challenged by the depth and intensity at which Roman and Greek mythology, history, and culture are studied. This course vertically aligns with AP and IB world language courses. Prerequisite: Latin I or Placement Exam. (03430200) (FLAH21) (IFLA21) (CHS) (LHS) (MHS)

**Latin Level III, 1 Credit [Pre-AP] [Pre-IB International Scholars–LHS]**

Latin III Pre-AP is an intermediate course intended to begin preparing students for applicable university placement exams. After a comprehensive review of Latin I and II, students are expected to comprehend the literature being read as well as the grammatical structure and literary significance of each piece. Students also research and produce essays and projects over individual topics in advanced Roman and Greek mythology, history, and culture. This course vertically aligns with AP and IB world language courses. Prerequisite: Latin II or Latin II Pre-AP or Placement Exam. (03430300) (FLAH31) (IFLA31) (CHS) (LHS)

**AP Latin Level IV, 1 Credit [Advanced Placement]**

Latin IV is an advanced course intended to prepare students for the Latin Advanced Placement exam (or other university placement exam). Emphasis is placed on the works of Vergil, Ovid and Catullus. The backgrounds of these authors are explored, along with their particular writing styles and vocabulary usage. Students are expected to comprehend the literature being read as well as grammatical structure and literary significance of each piece. Students also research and produce essays and projects over individual topics in advanced Roman and Greek mythology, history, and culture. Prerequisite: Latin III or Latin III Pre-AP or Placement Exam. (A3430100) (FLAH41) (CHS) (LHS)

**IB Latin Level IV, 2 Credits [International Baccalaureate SL]**

The aim of this course is to give students the basic linguistic skills they need to read with understanding standard classical authors in the original language. Students are encouraged to read a wider range of translated literature as a complement to the study of texts in the original Latin. Through the reading in the original language and in translation, the students develop some understanding of classical civilization and some awareness of its essential differences from, and similarities to, their own. Students may take the IB standard level exam after completing this course, but it is strongly recommended that a student take the next level before taking the exam. Prerequisites: Latin III Pre-AP and IB student or Placement Exam. (I3430400) (ILAT41) (ILATL1) (LHS)

**IB Latin Level V, 2 Credits [International Baccalaureate SL/HL]**

The aim of this course is to continue developing the basic linguistic skills needed for understanding, translating and appreciating a text in the original language. Through reading in both the Latin and translation, the students will develop an understanding and an appreciation of the historical and cultural background to those texts. This course leads to the IB standard level or higher level examination in Latin Language B. Prerequisites: Latin IV IB and IB student or Placement Exam. (I3430500) (ILAT51) (ILAT2) (LHS)

**IB AB Initio Mandarin, Grade 11, 1 Credit [International Baccalaureate]**

*This course does NOT satisfy a world language credit for graduation.*

This is year one of a two year program. It provides an opportunity for students to study Mandarin at a beginning level. Students should have no prior experience with Mandarin. The AB Initio course focuses on spoken interaction using a wide range of Mandarin resources and texts as stimulus. Listening, speaking, reading, and writing are all developed with special attention to 150 basic written characters. Students will also learn much about Chinese culture. (03490100) (IAIM31) (LHS)

**IB AB Initio Mandarin 2, Grade 12, 1 Credit, [International Baccalaureate]**

*This course does NOT satisfy a world language credit for graduation.*

This is the second year of a two year program. The IB Student will be prepared and test for AB Initio Mandarin at the end of this second year. The student will increase their knowledge of basic Mandarin language, Chinese culture, and Mandarin texts. The aim of this course is to create effective communication. The course includes written assignments, individual oral presentation, written tests, dictations, listening comprehension, and stroke order of character. (03490200) (IAIM41) (LHS)

**Spanish Level I, 1 Credit**

Spanish I is an introductory course to the Hispanic world, its language and its people. Students will be taught basic vocabulary, phrases and grammar using the skills of listening, speaking, reading and writing to meet the TEKS goals of

Communication, Cultures, Connections, Comparisons, and Communities at the novice-mid to novice-high level of proficiency. (03440100) (FSPR11)

### **Spanish Level II, 1 Credit**

Spanish II continues to develop the basic conversational, reading, and writing skills taught in Level I, increasing vocabulary and grammar skills to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the novice-mid to novice-high level of proficiency. Prerequisite: Spanish I or earning 80% or higher earned on Placement Exam. (03440200) (FSPR21)

### **Spanish Level II, 1 Credit [Pre-AP] [Pre-IB International Scholars–LHS]**

Spanish II Pre-AP includes the basic content of the Spanish II course. However, student expectations and assessment will be more rigorous, thus encouraging students to begin communicating at an intermediate-low proficiency level while preparing for future Advanced Placement testing. This course vertically aligns with AP and IB world language courses. Prerequisite: Spanish I or scoring an intermediate low on Placement Exam. (03440200) (FSAH21) (ISPA21)

### **Spanish Level III, 1 Credit [Pre-AP] [Pre-IB International Scholars–LHS]**

Spanish III Pre-AP is an intermediate level course. Students will continue to develop their communication skills by producing original spoken and written language rather than memorized phrases to meet the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the intermediate-mid level of proficiency. They will also begin reading excerpts from Spanish literature and continue preparing for the Spanish Language Advanced Placement Exam (or other university placement tests). This course vertically aligns with AP and IB world language courses. Prerequisite: Spanish II or Spanish II Pre-AP or scoring an intermediate-mid on Placement Exam. (03440300) (FSAH31) (ISPA31)

### **AP Spanish Level IV, 1 Credit [Advanced Placement]**

Spanish IV AP is a comprehensive advanced level course in the Spanish language. Students will continue refining the skills taught and practiced in the intermediate course, focusing on conversation, advanced vocabulary, advanced writing, and advanced reading skills needed for the Spanish Language Advanced Placement Exam (or other university placement tests). Both students and teacher are expected to use the Spanish language the majority of class time, while meeting the TEKS goals of Communication, Cultures, Connections, Comparisons, and Communities at the intermediate-high proficiency level. Prerequisite: Spanish III Pre-AP or scoring intermediate-high on Placement Exam. (A3440100) (FSAH41)

### **IB Spanish IV, 2 Credits [International Baccalaureate SL]**

This fast pace course will be taught almost entirely in Spanish and will assume student proficiency of Spanish III course work. The course will also include advanced grammar, writing, and more difficult reading selections. At this level, concentration is placed on enhancing and perfecting listening, speaking, reading, literary analysis and writing skills as well as broadening the students' understanding of Hispanic culture. Students will be expected to converse in Spanish. Students may take the IB standard level exam after completing this course, but it is strongly recommended that a student take the Spanish V IB course before taking the exam. Prerequisites: Spanish III Pre-AP and IB student or scoring intermediate-high on Placement Exam. (I3440400) (ISPA41) (ISPAL1) (LHS)

### **AP Spanish V, 1 Credit [Advanced Placement]**

Spanish V AP is a comprehensive advanced level course in the Spanish literature. Students at this level focus on interpretive reading, literary analysis and writing skills as well as broadening the students' understanding of Hispanic culture. Both students and teachers will be speaking mostly in Spanish. Prerequisite: Spanish IV AP or scoring intermediate-high on Placement Exam. (A3440200) (FSAH71)

**IB Spanish V, 2 Credits [International Baccalaureate SL/HL]**

In this course, students will engage in activities on topics prescribed by the IB Institute. Students will work to demonstrate their ability to compose well-constructed and idiomatic essays. Emphasis will be placed on oral fluency, essays, and comprehension. This course will be taught entirely in Spanish. This course leads to the IB standard level or higher level examination in Spanish Language B. Prerequisites: Spanish IV IB and IB student or scoring intermediate-high on Placement Exam. (I3440500) (ISPA51) (ISPAL2) (LHS)

**IB Spanish VI, 2 Credits [International Baccalaureate SL/HL]**

This course will be an intense and advanced study of language skills of conversation, listening, reading, and writing as well as a comprehensive overview and focus of the authors and literature of people in Hispanic countries and heritages. This course will be taught entirely in Spanish. This course leads to the IB standard level or higher level examination in Spanish Language B. Prerequisite: Spanish V IB or scoring intermediate-high on Placement Exam. (03440600) (FSAH61) (LHS)

## ELECTIVES

### **ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)**

Placement in AVID following application process, concurrent enrollment in rigorous courses (such as Pre-AP, AP, IB, dual-credit) required. Dual credit students must be TSI compliant in reading/writing by end of AVID I.

#### **AVID I, Grade 9, 1 credit [Regular] [Dual Credit–EECHS]**

This course will enable students to succeed in a rigorous course of study that will prepare them for success in postsecondary education. Students learn concepts such as time management and organization, study and test-taking skills, and college and career awareness. These concepts, along with field-based instruction and tutorial sessions, will give students a rigorous academic challenge in a positive environment. WICOR (writing, inquiry, collaboration, organization and reading) strategies are employed in class and in content-area classes. Students will be exposed to leadership opportunities and service opportunities. (N1290001) (AVID11) (AVIH11)

#### **AVID II, Grade 10, 1 credit [Regular] [Dual Credit–EECHS]**

This course will enable students to succeed in a rigorous course of study that will prepare them for success in postsecondary education. Students learn organizational and study skills, engage in critical thinking, develop and ask probing questions, collaborate with peers and college tutors during academic tutorials, and participate in enrichment and motivational activities that make college seem attainable. WICOR (writing, inquiry, collaboration, organization and reading) strategies are employed in class and in content-area classes. Students will take the PSAT and evaluate their score reports and develop goals for success on college admission tests. Students will take Advanced Placement tests in their respective AP classes. Students will learn leadership skills and participate in community service/school organization activities. (N1290002) (AVID21) (AVIH21)

#### **AVID III, Grade 11, 1 credit [Regular] [Dual Credit–EECHS]**

This course will enable students to succeed in a rigorous course of study that will prepare them for success in postsecondary education. Students continue to apply concepts such as time management and organization, study and test-taking skills, and college and career awareness. Teachers follow an intensive writing curriculum and facilitate research projects as well as discussion forums to promote higher-level thinking. Strategies such as Socratic seminars and philosophical chairs will be frequently utilized. WICOR (writing, inquiry, collaboration, organization and reading) strategies are employed in class and in content-area classes. Students will take the PSAT/NMSQT in the fall semester and will prepare to take the SAT and ACT tests during the spring semester as part of their college preparation and admissions activities. Students will take Advanced Placement tests in their respective AP classes, and students will be expected to participate in AVID and school/service activities in a leadership role. (N1290030) (AVID31) (AVIH31)

#### **AVID IV, Grade 12, 1 credit [Regular] [Dual Credit–EECHS]**

This course will enable students to succeed in a rigorous course of study that will prepare them for success in postsecondary education. Projects and independent research in the course will focus on scholarships, colleges, careers, school improvement, and/or community service. Students will complete all requirements necessary to attain admission to multiple postsecondary institutions, including admission to four-year colleges/ universities. Students will complete required financial aid applications to help secure the necessary funding for a postsecondary education. Students will take college entrance exams (SAT and ACT) and the Advanced Placement tests in their respective AP classes. AVID seniors will complete and present a multi-grade level portfolio of their best work. Students will participate in and organize a service activity that benefits the school community. (N1290033) (AVID41) (AVIH41)

### **CAPSTONE**

#### **Capstone AP Seminar, Grade 11, 1 Credit [Advanced Placement]**

This course is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students

practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. (N1130026) (LSRH31) (CHS, LHS, MHS)

### **Capstone AP Research, Grade 12, 1 Credit [Advanced Placement]**

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Prerequisite: Capstone AP Seminar (N1100014) (LSRH41) (CHS, LHS, MHS)

### **JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC) - VIRTUAL FTF WITH COMMANDER APPROVAL**

The JROTC program prepares high school cadets for responsible leadership roles while making them aware of their rights, responsibilities and privileges as American citizens. The program promotes graduation from high school and provides instruction and rewarding opportunities benefiting the cadet, the community and the nation. While no military obligation is incurred, satisfactory completion of the program can lead to credit in university ROTC Programs or to advanced rank in the armed forces. Satisfactory completion can also lead to a full ROTC college scholarship and will significantly enhance a cadet's application for one of the service academies, such as West Point and the Naval, Air Force, and Coast Guard academies.

Courses that contain RADR in the course code generate local credit.

	Military Science		Drill Team	
AJROTC I, Grades 9-12, 1 Credit, (Estacado)	PES00004	RMSR11	84200002	RADR11
AJROTC II, Grades 10-12, 1 Credit, (Estacado)	03160200	RMSR21	84200002	RADR21
AJROTC III, Grades 11-12, 1 Credit, (Estacado)	03160300	RMSR31	84200002	RADR31
AJROTC IV, Grade 12, 1 Credit, (Estacado)	03160400	RMSR41	84200002	RADR41
NJROTC I, Grades 9-12, 1 Credit, (Lubbock)	PES00004	RMSR11	84200002	RADR11
NJROTC II, Grades 10-12, 1 Credit, (Lubbock)	03160200	RMSR21	84200002	RADR21
NJROTC III, Grade 11-12, 1 Credit, (Lubbock)	03160300	RMSR31	84200002	RADR31
NJROTC IV, Grade 12, 1 Credit, (Lubbock)	03160400	RMSR41	84200002	RADR41

### **GIFTED AND TALENTED**

#### **Gifted and Talented G/T Independent Study Mentorship I-IV, Grades 9-12, 1/2-1 Credit [Weighted Credit]**

This course, based on the Exit Level Texas Performance Standards Project (TPSP) for gifted/talented (G/T) students, offers a non-traditional learning experience to those students who have the ability to create innovative products or performances. This course will be an elective credit for G/T high school students. Students work on in-depth projects under the guidance of a mentor in the field. (N1290309) (AGTH11) (N1290313) (AGTH21) (N1290317) (AGTH31) (N1290318) (AGTH41)

### **MEDIA & COMMUNICATION**

#### **Analysis of Visual Media (Film Analysis), Grades 9-12, 1/2 Credit**

Students enrolled in Visual Media will interpret various media forms for a variety of purposes. In addition, students will access, analyze, evaluate and produce communication in a variety of forms. They will also critique and analyze the significance of visual representations and learn to produce media messages that communicate with others. (03221700) (LVMR20)

**Debate I, Grades 9-12, 1/2-1 Credit (03240600) (LCDR21)****Debate II, Grades 10-12, 1/2-1 Credit (03240700) (LCDR31)****Debate III, Grades 10-12, 1/2-1 Credit (03240800) (LCDR41)**

*4th year English credit for Debate III under Foundation Program and Foundation plus Endorsement Program*

Sequential courses are concentrated studies in debate for students wishing to compete in Interscholastic League competitions. This course is designed to educate students in the art of argumentation. Content includes analysis of propositions, academic research, preparation of research files and briefs, writing of arguments supporting and opposing propositions of policy and value, skills of refutation, presentation and delivery.

**Journalism I, Grades 9-12, 1/2-1 Credit**

This course presents journalistic techniques in the classroom concerning reporting, special writing, and photojournalism. Prerequisite: Above-average grades and recommendation of English or journalism teacher. (03230100) (LJOR20) (LJOR21)

**Advanced Journalism: Newspaper Production I, Grades 9-12, 1/2-1 Credit**

Focus on newspaper production with topics including editing, graphics, design, layout, and advertising. Prerequisite: Journalism I (in middle school or high school) and instructor approval. (03230140) (LJNR21)

**Advanced Journalism: Newspaper Production II, Grades 10-12, 1/2-1 Credit [Regular] [Weighted credit]**

Prerequisite: Newspaper Production I and instructor approval (03230150) (LJNR31) (LJNH31)

**Advanced Journalism: Newspaper Production III, Grades 11-12, 1/2-1 Credit [Regular] [Weighted credit]**

*4th year English credit under Foundation Program and Foundation plus Endorsement Program*

Prerequisite: Newspaper Production II and instructor approval (03230160) (LJNR41) (LJNH41)

**Advanced Journalism: Yearbook Production I, Grades 9-12, 1/2-1 Credit**

Focus on yearbook publication with topics including graphics, design, layout, photography, magazine journalism techniques, advertising, budgets, and production. Prerequisite: Journalism I (in middle school or high school) and instructor approval. (03230110) (LJYR21)

**Advanced Journalism: Yearbook Production II, Grades 10-12, 1/2-1 Credit [Regular] [Weighted credit]**

Prerequisite: Yearbook Production I and instructor approval. (03230120) (LJYR31) (LJYH31)

**Advanced Journalism: Yearbook Production III, Grades 11-12, 1/2-1 Credit [Regular] [Weighted credit]**

*4th year English credit for Yearbook Production III under the Foundation Program and the Foundation plus Endorsement Program*

Prerequisite: Yearbook Production II and instructor approval (03230130) (LJYR41) (LJYH41)

**Oral Interpretation I, Grades 10-12, 1/2-1 Credit (03240200) (LCOR21)****Oral Interpretation II, Grades 10-12, 1/2-1 Credit (03240300) (LCOR31)****Oral Interpretation III, Grades 10-12, 1/2-1 Credit (03240400) (LCOR41)**

*4th year English credit for Oral Interpretation III under Foundation Program and Foundation plus Endorsement Program*

Sequential courses are concentrated studies in the interpretation of literature for students wishing to compete in Interscholastic League competitions. In Oral Interpretation, students study the oral reading or performance of a literary text as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated.

**Photojournalism, Grades 9-12, 1/2-1 Credit**

This course focuses on photography for journalistic purposes including camera operations and safety, journalistic ethics and law, picture composition, and photo editing. (03230800) (LPJR20) (LPJR21)

**Public Speaking I, Grades 9-12, 1/2-1 Credit (03240900) (LCSR21)****Public Speaking II, Grades 10-12, 1/2-1 Credit (03241000) (LCSR31)****Public Speaking III, Grades 10-12, 1/2-1 Credit (03241100) (LCSR41)**

*4th year English credit for Public Speaking III under Foundation Program and Foundation plus Endorsement Program*

Sequential courses are concentrated studies in Public Speaking for students wishing to compete in Interscholastic League competitions. This course is a study of preparation of public speeches and includes concepts of rhetoric, topic selection, library and electronic research skills, organization of ideas, preparation and presentation, and delivery skills.

**Special Topics in Forensics**

Independent study course for students on the Competitive Speech and Debate Team. Topics include: Advanced Policy Debate, Advanced Value Debate, Advanced Public Speaking, Research Methods, and Advanced Oral Interpretation. (03241200) (LCFR11)

**PEER MEDIATION AND TUTORING****Peer Mediation, Grades 9-12, 1/2-1 Local Credit**

Students are trained as peer mediators in providing non-violent problem solving approaches to resolving conflicts for their campus. Students will focus on areas of understanding conflict, styles of conflict, negotiation, collaboration, and developing communication and listening skills. Students may also be involved as mentors in elementary and middle schools. (85000001) (LPMR20) (LPMR21)

**Peer Tutoring, Grades 10-12, 1/2-1 Local Credit**

This course offers an opportunity for a student to receive local credit for tutoring one or more students in a designated class. The peer tutor must have an 85 average or higher in academic subjects, be recommended by a teacher, and be accepted through an application/interview process. Training for the tutor will be provided at the beginning of the semester or year. (85000002) (LPPR20) (LPPR21)

**STUDENT/TEEN LEADERSHIP****Student Leadership, Grades 9-12, 1/2-1 Credit**

This course provides opportunities to study, practice and develop group and individual leadership and organizational skills. These skills include decision-making skills, problem-solving techniques, communication skills, leadership roles, human relationship skills and understanding the need for civic responsibility. (N1290010) (LECR30) (LECR31)

**LeadWorthy Teen Leadership, Grades 9-12, 1/2 Credit**

LeadWorthy Teen Leadership is a course in which students develop leadership, professional, and business skills. Students learn to develop a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility. (N1290012) (TELR11) (CHS)

**WELLNESS EDUCATION & SPORTS MEDICINE****Comprehensive Wellness, Grades 9-12, 1/2 Credit**

This course focuses on the integration of body, mind, emotions, and behaviors to help students make a conscious decision toward a lifetime of health and wellness. This course provides students with essential knowledge and skills to improve attitudes, beliefs, and behaviors for optimal physical and emotional health. (N1150043) (HCWR10)

**Comprehensive Wellness II, Grades 9-12, 1/2 Credit**

This course allows students to explore how to be safe and secure with their own physical and emotional self, solidify their individual and social identity and recognize the abilities needed to achieve healthy direction and purpose in their

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lives. This course builds upon the principles learned in Comprehensive Wellness, but Comprehensive Wellness is not a prerequisite for this course. (N1150046) (HCWR20)

**Sports Medicine I, II Grades 10-12, 1/2-1 Credit - VIRTUAL FTF WITH INSTRUCTOR APPROVAL**

This course provides an opportunity for the study and application of components of sports medicine: sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, and immediate care of athletic injuries, rehabilitation and management skills, taping, and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy, and physiology, therapeutic modalities and therapeutic exercise. Prerequisite: Must currently be in the high school sports training program, or instructor approval. (N1150040)(SPMR31) (N1150041) (SPMR41)

# CAREER AND TECHNICAL EDUCATION

## Agriculture, Food, & Natural Resources

### **Principles of Agriculture, Food and Natural Resources, Grades 9-11, 1 Credit**

Students prepare for careers in agriculture, food and natural resources. Students will attain academic skills and knowledge in agriculture. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply and transfer their knowledge and skills in a variety of settings. (13000200) (YRFR11) (CHS/ MHS)

### **Agribusiness Management and Marketing, Grades 10-12, 1 Credit**

Skills related to agribusiness management and marketing and the workplace will be learned by students. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. (13000900) (YRMR11) (CHS/ MHS)

### **Small Animal Management, Grades 10-12, 1/2 Credit**

Careers in the field of animal science are taught in this course. Small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs and cats. (13000400) (YRAR10) (CHS/MHS)

### **Equine Science, Grades 10-12, 1/2 Credit**

Careers in the field of animal science are growing. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules. (13000500) (YRER10) (CHS/MHS)

### **Livestock Production, Grades 10-12, 1 Credit**

Students will learn about production of animal species including, but not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry. (13000300) (YRLR11) (CHS/MHS)

### **Food Technology and Safety, Grades 10-12, 1 Credit**

Preparation for careers in value-added and food processing systems will be taught. This course examines the food technology industry as it relates to food production, handling, and safety. (13001300) (YRTR11) (CHS/ MHS)

### **Veterinary Medical Applications, Grades 11-12, 1 Credit**

Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. Prerequisite: Equine Science, Small Animal Management, or Livestock Production. (13000600) (YRVR11) (CHS/MHS)

### **Wildlife, Fisheries and Ecology Management, Grades 9-12, 1 Credit**

Management of game and non-game wildlife species, fish, and aqua-crops and their ecological needs as related to current agricultural practices is taught in this class. (13001500) (YRWR11) (CHS/MHS)

### **Floral Design and Agricultural Laboratory and Field Experience, Grades 10-12, 2 Credits [Weighted Credit]**

*This course satisfies a fine arts credit requirement for students on the Foundation High School Program.*

Students develop the ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Students prepare to earn the Texas State Floral Association Level 1 Floral Certification. (13001810) (YROH11) (ATC)

**Advanced Floral Design and Project-Based Research, Grades 11-12, 2 Credits [Weighted Credit]**

Students gain advanced knowledge and skills specific to those needed to enter the workforce as floral designers or as freelance floral event designers, with an emphasis on specialty designs and occasion-specific designs and planning. Students prepare to earn the Texas State Floral Association Level 2 Floral Certification. (N1300270) (YROH21—1 credit) (12701500) (YNFH51—1 credit) (ATC)

***Internship in Floral Design— see Internship and Extended Internship in Agriculture, Food and Natural Resources, or Floral Design***

**Project-Based Research in Agriculture, Food and Natural Resources, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YNFH51—1 credit) (12701510—2nd Time Taken) (YNFH61—1 credit) (3rd Time Taken 12701520) (YNFH71—1 credit)

**Internship and Extended Internship in Agriculture, Food and Natural Resources, or Floral Design, Grades 11- 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food and Natural Resources Career Cluster. Students shall be awarded two credits for successful completion of the internship program in Agriculture, Food and Natural Resources. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. If students choose to take an Extended Internship in Agriculture, Food and Natural Resources and earn up to three credit hours, this course must be taken concurrently with an Internship in Agriculture, Food and Natural Resources and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of the Extended Internship in Agriculture, Food and Natural Resources. A student may repeat the Internship in Agriculture, Food and Natural Resources once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster. Transportation required. (13002500) (YRIH81—2 credits) (13002505) (YRIH91—3 credits)

## Architecture & Construction

### **Principles of Trades and Industrial Technology, Grades 9-10, 1 Credit**

This course provides an overview of the various fields of architecture and construction technology, machining, welding, automotive technology, and collision repair and refinishing. Each area of the Trades and Industrial fields will be broken into 9 week units. Students will have hands-on experience with small engines and simulators in the classroom. (13032200) (YMMR11)

### **Interior Design I, Grades 10-12, 1 Credit**

This is a technical course that addresses psychological, physiological and sociological needs of individuals by enhancing the environments in which they live and work. Students use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, and to compete in industry. Prerequisites: Algebra I and English I. (13004300) (YAIR11)

### **Interior Design II, Grades 11-12, 2 Credits [Weighted Credit]**

Advanced Interior Design is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design. Prerequisites: English II, Geometry, and Interior Design I. (13004400) (YAIH21)

### **Internship and Extended Internship in Interior Design, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Interior Design. Students shall be awarded two credits for successful completion of the internship program in Interior Design. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. If students choose to take an Extended Internship in Interior Design and earn up to three credit hours, this course must be taken concurrently with an Internship in Interior Design and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of the Extended Internship in Interior Design. A student may repeat the Extended Internship in Interior Design once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Prerequisite: Interior Design II. Transportation required. (13004500) (YAIH81—2 credits) (13004505) (YAIH91—3 credits)

### **Architectural Design I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. A variety of computer hardware and software applications are used to complete assignments and projects. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Students prepare to earn Auto CAD Certified User Certification. This course must be taken concurrently with Engineering Design and Presentation I. Prerequisites: Algebra I, Geometry and English I. (13004600) (YAAH11) (ATC)

### **Architectural Design II, Grades 11-12, 2 Credits [Weighted Credit]**

In Advanced Architectural Design II, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Students prepare to earn the Autodesk Certification. Prerequisites: Architectural Design I and Geometry. (13004700) (YAAH21) (ATC)

**Project-Based Research in Architectural Design, Grades 11-12, 1-2 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YAAH51—1 credit) (12701510--2nd Time Taken) (YAAH61—1 credit) (12701520--3rd Time Taken) (YAAH71 –1 credit) (ATC)

**Construction Technology I, Grades 10-12, 2 Credits [Weighted Credit]**

Students in Construction Technology I will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. Students will gain the knowledge to prepare to enter the workforce in the construction industry, building maintenance industry, or preparing to pursue a postsecondary degree in the architecture or construction industry. Students will complete the NCCER Core Curriculum certification and the OSHA 10 hour industry certification. (13005100) (YACH11) (ATC)

**Construction Technology II, Grades 11-12, 2 Credits [Weighted Credit]**

Students will build on the knowledge and skills gained in Construction Technology I in order to prepare students to enter the workforce in the construction industry. Students will learn advanced skills in framing, finish carpentry, stair construction, and cabinetmaking. Prerequisite: Construction Technology I. (13005200) (YACH21) (ATC)

**Project-Based Research in Construction Technology, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YACH51—1 credit) (12701510—2nd Time Taken) (YACH61—1 credit) (12701520—3rd Time Taken) (YACH71—1 credit) (ATC)

**Internship and Extended Internship in Construction Technology, Grade 12, 2-3 Credits [Weighted Credit]**

Internship in Construction Technology is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences as a paid or unpaid capstone experience. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. Students shall be awarded two credits for successful completion of the Internship in Construction Technology. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. The Extended Internship in Construction Technology must be taken concurrently with the Internship in Construction Technology and may not be taken as a stand-alone course. A student may repeat the Extended Internship in Construction Technology once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Prerequisite: Construction Technology II. Transportation required. (13005250) (YACH81—2 credits) (13005255) (YACH91—3 credits) (ATC)

**Electrical Technology I, Grades 10-12, 1 Credit [Weighted Credit]**

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an apprentice electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment and wiring, and the reading of electrical drawings, schematics, and specifications. Electrical Technology I must be taken concurrently with Electrical Technology I Lab and

cannot be taken as a stand-alone course. Recommended Prerequisite: Principles of Trade and Industry. (13005600) (YAEH11) (ATC)

#### **Electrical Technology I Lab, Grades 10-12, 1 Local Credit [Weighted Credit]**

Students will practice the skills learned in Electrical Technology I in a lab setting. This lab may not be taken as a stand-alone course. Students shall be awarded one local credit for successful completion of this course. The lab course will provide sufficient time to master the skills in basic Electrical Technology I and provide the hands-on application of these skills. Electrical Technology I Lab must be taken concurrently with Electrical Technology I and cannot be taken as a stand-alone course. (84900083) (YAEL11) (ATC)

#### **Electrical Technology II, Grades 11-12, 2 Credits [Weighted Credit]**

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an apprentice electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation. Prerequisites: Electrical Technology I and Electrical Technology I Lab. (13005700) (YAEH21) (ATC)

#### **Apprenticeship in Electrical Technology, Grade 12, 2-3 Credits [Weighted Credit]**

The Apprenticeship in Electrical Technology provides classroom technical instruction and on-the-job training experiences as a paid or unpaid apprentice in electrical. Students will earn hours through the Department of Labor Apprenticeship program through Texas Tech University toward the Journeyman License in Electrical while working with a Journeyman mentor. Students shall be awarded two credits (minimum of 10 hours per week) or three credits (minimum of 15 hours per week) for successful completion of the Apprenticeship in Electrical Technology. Prerequisite: Electrical Technology II. Transportation required. (13005250) (YAEH51—2 credits) (13005255) (YAEH61—3 credits) (ATC)

#### **Plumbing Technology I, Grades 10-12, 1 Credit [Weighted Credit]**

In Plumbing Technology I, students will gain knowledge and skills needed to enter the industry as a plumbing apprentice, building maintenance technician, or supervisor or prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawings; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies. Students will enter a Department of Labor Apprenticeship program through Texas Tech University and begin earning hours toward their Journeyman certificate in plumbing. Plumbing Technology I must be taken concurrently with Plumbing I Lab and may not be taken as a stand-alone course. Recommended Prerequisite: Principles of Trade and Industry. (13006000) (YAPH11) (ATC)

#### **Plumbing Technology I Lab, Grades 10-12, 1 Local Credit [Weighted Credit]**

Students will practice the skills learned in Plumbing Technology I in a lab setting. This lab may not be taken as a stand-alone course. Students shall be awarded one local credit for successful completion of this course. The lab course will provide sufficient time to master the skills in basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. Plumbing Technology I Lab must be taken concurrently with Plumbing Technology I and cannot be taken as a stand-alone course. Recommended Prerequisite: Principles of Trade and Industry. (84900083) (YAPL11) (ATC)

#### **Plumbing Technology II, Grades 11-12, 2 Credits [Weighted Credit]**

In Plumbing Technology II, students will gain the advanced knowledge and skills needed to enter the industry as a plumber apprentice, building maintenance technician, or supervisor or prepare for a postsecondary degree in mechanical

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engineering. Students will acquire knowledge and skills in plumbing codes, industry workplace basics, and employer/customer expectations, including tool and jobsite safety, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation. Students will continue the Department of Labor Apprenticeship program through Texas Tech University earning hours toward their journeyman certificate in plumbing. Prerequisites: Plumbing Technology I and Plumbing Technology I Lab. (13006100) (YAPH21)

**Apprenticeship in Plumbing, Grade 12, 2-3 Credits [Weighted Credit]**

The Apprenticeship in Plumbing Technology provides classroom technical instruction and on-the-job training experiences as a paid or unpaid apprentice in plumbing. Students will earn hours through the Department of Labor Apprenticeship program through Texas Tech University toward the Journeyman Certificate in Plumbing while working with a plumbing mentor. Students shall be awarded two credits (minimum of 10 hours per week) or three credits (minimum of 15 hours per week) for successful completion of the Apprenticeship in Plumbing Technology. Prerequisites: Plumbing Technology II. Transportation required. (13005250) (YAPH81—2 credits) (13005255) (YAPH91—3 credits)

## Arts, Audio/Video Production & Communications

### **Principles of Arts, Audio/Video Technology, and Communications, Grades 9-10, 1 Credit**

Technology learned in Arts, Audio/Visual Technology, and Communications will help students be successful with courses that are included in the Business and Industry Endorsement. This course will enable students to succeed in current or emerging professions. They will focus on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content using various types of technology, video equipment, and editing software. Students will have the opportunity to use software such as word processing (information management, file management and sharing), editing (Photoshop), photography, animation, audio/video (filming & editing), graphic design, etc. We will discuss parts of a computer, software, the responsible use of social media, email and internet. (13008200) (YTCR11)

### **Digital Video Creation I and Lab/LISD-TV, Grades 10-12, 2 Credits [Weighted Credit] [CTE College Credit]**

Using industry standard audio and video equipment and techniques, students will focus on learning to write, shoot, and edit their own videos! Students will have the opportunity to work in a state-of-the-art TV studio and mobile production truck. Students will learn to create content for various aspects of the media industry including; broadcast news and sports, film and social media. Students will get an introduction to the Drone Industry and the possibilities of getting a Commercial Drone License. At the completion of the course, students will have created a variety of videos and their own Podcast! Classes are taught by Lubbock ISD-TV staff members. The lab will be taught concurrently with Digital Video Creation and may not be taken as a stand-alone course. Students prepare to earn the Adobe Certified Associate (ACA) certificate in Premiere. (13008510) (YTVH11) (ATC/LISD TV)

### **Digital Video Creation II and Lab/LISD-TV, Grades 11-12, 2 Credits [Weighted Credit]**

This class will continue to develop the student's Television Production skills. Students will learn script writing, producing, directing, audio, post-production, and cinematography techniques. Students will also work on individual and group projects including feature stories, documentaries, PSA's, sitcoms, and short films. Students will also learn to fly drones, preparing to get their Commercial Drone Pilot license. Students will also get the opportunity to produce their own Podcast. Students will work with lighting, video cameras, DSLR cameras, jibs, editing software, and other production equipment. In addition, students will expand their knowledge of video production with a creative twist. Students will learn advanced methods of shooting, lighting, sound acquisition and editing. Students will learn how to create video content from concept to completion for broadcast, web and digital distribution. Students will participate in local and national contests. The class is taught at Lubbock ISD-TV. Prerequisites: Digital Video Creation I and Lab. Must have made progress towards passing the Adobe Certified Associate (ACA) certificate in Premiere test taken during Digital Video Creation I. (13008610) (YTVH21) (ATC/LISD TV)

### **Internship and Extended Internship in Digital Video Creation/LISD-TV, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Creative & Storytelling field. This course is a continuation of advanced techniques with emphasis on independent projects. Students are expected to serve in a leadership capacity as they prepare for entry into college coursework and broadcast careers. This course takes place at Lubbock ISD-TV studio and mentored by Lubbock ISD-TV staff. Students shall be awarded two credits for successful completion of the Internship in Audio/Video Production. A student may repeat the Digital Video Creation III once for credit provided that the student is experiencing different aspects of the industry. Students shall be awarded one credit for successful completion of the Extended Internship in Audio/Video Production. Prerequisites: Digital Video Creation II & Lab. Recommended Prerequisite: Successful completion of the Adobe Certified Associate (ACA) certificate in Premiere test taken during Digital Video Creation II. Transportation required. (13008700) (YTVH81—2 credits) (13008705) (YTVH91—3 credits) (ATC/LISD TV)

### **Fashion Design I, Grades 10-12, 1 Credit**

Are you a fashionista? Interested in fashion? Have you ever considered how Gucci became a worldwide brand? How about a career in fashion design? This course is designed to give students an overview of the apparel design industry.

Students will be introduced to the history of fashion, careers relative to the fashion industry, the designing process, beginning apparel construction, marketing of fashion apparel, and the fashion business. (13009300) (YTFR11)

### **Fashion Design II and Fashion Design II Lab, Grades 11-12, 2 Credits [Weighted Credit]**

Careers in fashion span all aspects of the textile and apparel industries. In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of fashion, with emphasis on design and production. The Fashion Design II Lab must be taken concurrently with Fashion Design II and may not be taken as a stand-alone course. This lab is offered in a consecutive block with Fashion Design II to allow students sufficient time to master the content of both courses. Prerequisite: Fashion Design I. (13009410) (YTFR21)

### **Project-Based Research in Fashion Design, Grade 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YTFH51—1 credit) (12701510—2nd Time Taken) (YTFH61—1 credit) (12701520--3rd Time Taken) (YTFH71—1 credit)

### **Internship and Extended Internship in Fashion Design, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Fashion Design. Students shall be awarded two credits for successful completion of the Internship in Fashion Design. If students choose to take an Extended Internship in Fashion Design and earn up to three credit hours, this course must be taken concurrently with the Internship in Fashion Design and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of an Extended Internship in Fashion Design. Prerequisites: Fashion Design II and Fashion Design II Lab. Application required. Transportation required. (13009500) (YTFH81—2 credits) (13009505) (YTFH91—3 credits)

### **Digital Media, Grades 9-12, 1 Credit [Weighted Credit] [CTE College Credit]**

This course focuses on analyzing and assessing current and emerging technologies while designing and creating multimedia projects that address customer needs and resolve a problem. Students will create projects and learn to use a variety of software. Digital cameras and video cameras will be incorporated into this course. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. (13027800) (YIDH11)

### **Animation I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Do you enjoy making art move? Do you like cartoons that tell a story? Then this is the class for you! Using Adobe Animate, Photoshop, Audition and GarageBand, students will learn to animate in a 2D environment. Students will use iMacs as they learn to work in another operating system. We will explore various careers, create storylines and animations that sell, tell a story, or inspire. This course focuses on developing technical and knowledge skills based in the animation industry. (13008300) (YTAH11) (ATC)

### **Animation II and Animation II Lab, Grades 11-12, 2 Credits [Weighted Credit]**

Animation II focuses on creating art and sharing it. Students will participate in local district contests and have the opportunity to go to state competition. Students will develop advanced skills to prepare them for the workforce as well as research careers in the animation industry. Students enrolling in Animation II will also be enrolled in Animation II Lab. Animation II Lab must be taken concurrently with Animation II and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of this course. Students prepare to earn the Adobe Animate Certification in this course. Prerequisite: Animation I. (13008410) (YTAH21) (ATC)

**Project-Based Research in Animation, Grade 12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. Prerequisites: Animation I and Animation II. (12701500—1st Time Taken) (YTAH51—1 credit) (12701510—2nd Time Taken) (YTAH61—1 credit) (12701520—3rd Time Taken) (YTAH71—1 credit) (ATC)

**Internship and Extended Internship in Animation, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Animation. Students shall be awarded two credits for successful completion of the internship program in Animation. If students choose to take an Extended Internship in Animation, the student can earn up to three credit hours. This course must be taken concurrently with an Internship in Animation, and may not be taken as a stand-alone course. Prerequisites: Animation I and Animation II. Application required. Transportation required. (13008450) (YTAH81—2 credits) (13008455) (YTAH91—3 credits) (ATC)

**Graphic Design & Illustration I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Graphic Design is revolutionizing the internet and print. Learn the latest interactive technologies for an ever-changing digital world. It's going to be full on, but you'll love it every step of the way. In Photoshop, students manipulate images to make photo magic. Illustrator allows students to draw detailed pictures. By the end of the course using InDesign, students have an online portfolio that demonstrates their capability to design and build highly innovative digital interfaces. Students receive a foundation needed to start their career and specialize in desired areas of Graphic Design. All software meets industry standards. (13008800) (YTGH21) (ATC)

**Graphic Design & Illustration II & Graphic Design & Illustration II Lab, Grades 11-12, 2 Credits [Weighted Credit] [CTE College Credit]**

This course has been specifically designed to take intermediate level student to proficiency in Adobe Photoshop and Illustrator. This lab is offered in a consecutive block with Graphic Design and Illustration II to allow students sufficient time to master the content of both courses. Students prepare to earn the Adobe Photoshop certification in Graphic Design & Illustration II course. Prerequisite: Graphic Design & Illustration I. (13008910) (YTGH41) (ATC)

**Project-Based Research in Graphic Design & Illustration, Grade 12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. Prerequisites: Graphic Design & Illustration I and Graphic Design & Illustration II & Graphic Design & Illustration II Lab. (12701500—1st Time Taken) (YTGH51—1 credit) (12701510—2nd Time Taken) (YTGH61—1 credit) (12701520—3rd Time Taken) (YTGH71—1 credit) (ATC)

**Internship and Extended Internship in Graphic Design and Illustration, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Graphic Design and Illustration. Students shall be awarded two credits for successful completion of the internship program in Graphic Design and Illustration. If students choose to take an Extended Internship in Graphic Design and Illustration, the student can earn up to three credit hours. This course must be taken concurrently with an Internship in Graphic Design and Illustration and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of the Extended Internship in Graphic Design and Illustration. Prerequisites:

Graphic Design & Illustration I and Graphic Design & Illustration II & Graphic Design & Illustration II Lab. Transportation required. (13009000) (YTGH81—2 credits) (13009005) (YTGH91—3 credits) (ATC)

**3D Graphic Modeling & Animation, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

*This course satisfies the high school fine arts graduation requirement.*

3D Graphic Modeling and Animation consists of computer images created in a virtual 3-dimensional environment. 3D Graphic Modeling & Animation has applications in many careers, including criminal justice, crime scene, and legal applications; engineering and design; and the movie and the game industries. Students in this course will produce various 3D models of real-world objects. (03580510) (EISH11) (ATC)

**Advanced 3D Graphic Modeling & Animation, Grades 11-12, 2 Credits [Weighted Credit]**

Using Maya software, this course teaches intermediate skills which will be used to create a series of project-based lessons designed to guide students through the process of creating and generating animation. This course builds on the modeling skills learned in the beginning course and teaches students how to texture map, add visual effects, animate, and render. Topics include detailed modeling, editing at the vertex and face levels, and development of complex materials. Students prepare to earn the Autodesk Maya Certification. Prerequisites: 3D Graphic Modeling & Animation. (03580900) (YIND51—1 credit) (03581000) (YIND61—1 credit) (ATC)

**Independent Study in 3D Graphic Modeling & Animation (Formerly known as Project-Based Research in 3D Graphic Modeling & Animation), Grades 11-12, 1 Credit [Weighted Credit]**

This course is project-based for students who will document creative research on social causes important to them with clearly defined goals. A proposal will be submitted for approval. Research will be recorded and weekly reports will be written demonstrating findings and understanding of the topic. Students will increase their knowledge over the topic and demonstrate growth and effective decision making. Students will demonstrate time management in meeting deadlines and provide quality work. There will be a final presentation given to a committee of professionals. Prerequisite: Advanced 3D Modeling and Animation. (03581100) (YIND71) (ATC)

**Commercial Photography I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. The role of the photographer in our world is a powerful one. The photographer documents our human journey, informs us, captures our essence and fills our world with his or her creations. The world of photography is also constantly evolving. To be successful, one must combine a visual flair with the proficiency needed to master the advanced technological changes this field is continually experiencing. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. (13009100) (YTBH11) (ATC)

## **Business Management & Administration**

### **Principles of Business, Marketing and Finance, Grades 9-10, 1 Credit**

Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance. (13011200) (YBBR11)

### **Touch System Data Entry, Grades 9-12, 1/2 Credit**

This course provides students the opportunity to improve their speed and accuracy on the keyboard. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. In addition, the course focuses on document formatting skills applicable in many personal, educational, and workplace settings while using the Microsoft Office Suite 2016. With an increasing focus on technology, these skills are valuable for all students. (13011300) (YBTR10)

### **Sports and Entertainment Marketing, Grades 9-12, 1/2 Credit**

A thorough understanding of the marketing concepts and theories that apply to sports, sporting events and entertainment is taught to students. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment plans. (13034600) (YKTR10)

### **Social Media Marketing, Grades 9-12, 1/2 Credit**

Social Media Marketing is designed to look at the rise of social media and how it has transformed the business arena as we once knew it. It will look at how marketers are integrating social media tools in their overall marketing strategy. It will also investigate how the marketing community measures success in the new world of social media. The students will learn about the multi-disciplinary implications and how to manage a successful social media presence for an organization. Students will also learn techniques for gaining customer and consumer buy-in to achieve their marketing goals. The students will learn how to properly select the social media platforms to engage consumers, and monitor and measure the results of these efforts. (13034650) (YKSR10)

### **Fashion Marketing, Grades 9-12, 1/2 Credit**

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities. (13034300) (YKFR10)

### **Entrepreneurship, Grades 10-12, 1 Credit**

Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit. (13034400) (YKER11)

### **Digital Media, Grades 9-12, 1 Credit [Weighted Credit] [CTE College Credit]**

This course focuses on analyzing and assessing current and emerging technologies while designing and creating multimedia projects that address customer needs and resolve a problem. Students will create projects and learn to use a variety of software. Digital cameras and video cameras will be incorporated into this course. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. (13027800) (YIDH11)

**Business Information Management I, Grades 9-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students earn the Microsoft Office Specialist certification and are expected to pass certifications in Word, Excel, and PowerPoint. In order to be successful in this class, the student should be able to type 30 gwam. Students will apply technical skills to address business applications of emerging technologies, create word processing documents, develop spreadsheets, formulate databases, and make electronic presentations using appropriate software. Students will earn industry certifications in Microsoft Office Specialist. (13011400) (YBIH11)

**Business Information Management II, Grades 10-12, 1 Credit [Weighted Credit]**

Students will earn the Microsoft Office Specialist certification and are expected to pass certifications in Access, Expert Word, and Expert Excel. In this advanced course, students continue the process of implementation of personal and interpersonal skills and apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. Prerequisite: Business Information Management I and must have passed the MOS certifications in Word, Excel and PowerPoint. (13011500) (YBIH21)

**Financial Mathematics, Grades 10-12, 1 Credit**

*This course satisfies a math credit requirement for students on the Foundation High School Program.*

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and post-secondary education planning into financial decision-making. Prerequisite: Algebra I (13018000) (YFFR11)

**Accounting I, Grades 9-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of planning, recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making. (13016600) (YFAH11)

**Accounting II, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. Students will earn an Industry Certification in QuickBooks. Prerequisite: Accounting I. (13016700) (YFAH21)

**Project-Based Research in Business Management, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits (12701500—1st Time Taken) (YBIH51—1 credit) (12701510—2nd Time Taken) (YBIH61—1 credit) (12701520—3rd Time Taken) (YBIH71—1 credit)

**Internship and Extended Internship in Business Management, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Business Management cluster. Students shall be awarded two credits for successful completion of the Internship in Business Management. If students choose to take an Extended Internship in Business Management and earn up to three credit hours, this course must be taken concurrently with an Internship in

VIRTUAL Edgenuity

VIRTUAL Asynchronous

VIRTUAL Synchronous

VIRTUAL FTF

Business Management and may not be taken as a stand-alone course. Transportation required. (13012200) (YBIH81—2 credits) (13012205) (YBIH91—3 credits)

## Education

### **Principles of Ready, Set, Teach, Grades 9-10, 1 Credit**

This course is an introduction to jobs in the education field. Areas of study included are life development stages, behavioral theory, best practices in education and the steps of the lesson cycle. Learning is hands-on through projects, classroom observations, tutoring for elementary age students, and working with the community in a variety of hands-on learning service projects. This course is recommended prior to or may be taken concurrently while being enrolled in Ready, Set, Teach I. (13014200) (YEER11)

### **Child Development, Grades 10-12, 1 Credit**

This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. (13024700) (YPVR11)

### **Ready, Set, Teach I, Grades 11-12, 2 Credits [Weighted Credit]**

This field-based internship provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. Recommended prerequisites: Principles of Ready, Set, Teach and Child Development. Transportation required. (13014400) (YEIH11) (ATC)

### **Ready, Set, Teach II, Grade 12, 2 Credits [Weighted Credit]**

This is the second year course for students interested in becoming teachers. See the description for Ready, Set, Teach I above. Prerequisite: Ready, Set, Teach I. Transportation required. (13014500) (YEEH31) (ATC)

## Health Science

### **Principles of Health Science, Grades 9-10, 1 Credit [Campus only] (Grade 11 and Talkington Students Take Concurrently with another Health course—ATC only)**

This is an introductory course that gives the student an overview of the health system with emphasis on career research, medical terminology, therapeutic and diagnostic services for detection and prevention of illness. The Principles of Health Science class gives the student the foundational knowledge, skills, and abilities necessary to be successful in future health courses in both high school as well as college. This course is a requirement for all health science courses at the Byron Martin Advanced Technology Center. (13020200) (YSHR11) (Talkington) (YSHR01) (CHS, EHS, LHS, MHS)

### **Mathematics for Medical Professionals, Grades 11-12, 1 Credit**

*This course satisfies a math credit requirement for students on the Foundation High School Program.*

Students will apply math concepts with pharmacology application and health occupation based examples and problems. Teachers focus on fractions, decimals, ratio and proportion, and apothecary to metric conversions. Prerequisites: Successful completion Geometry and Algebra II. (13020970) (YZMR11) (ATC)

### **Anatomy and Physiology, Grades 10-12, 1 Credit [Regular] [Weighted Credit at ATC]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

Students conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. If this course is taken at the ATC, the student must be enrolled in the Health Science Pathway and must be enrolled in another Health Science course concurrently. Prerequisites: Successful completion of Biology and a lab science (IPC, Physics or Chemistry) or currently enrolled in a lab science. (13020600) (YSAR11-CHS/EHS/LHS/MHS) (YSAH11 – ATC)

### **Health Science Theory, Grades 10-12, 1 Credit [Weighted Credit]**

This course is designed to provide the development of advanced knowledge and skills related to a wide variety of health care careers. The in-depth study of therapeutic, diagnostic, health informatics, support services, and health research assists students with forming a more specific direction in the health field. The course may be taught by different methodologies such as clinical tours and career preparation learning. Students prepare to earn the Certified Cardiopulmonary Resuscitation (CPR) certification. Prerequisite: Successful completion of Biology. (13020400) (YSHH11) (ATC)

### **Medical Microbiology, Grades 11-12, 1 Credit [Weighted Credit]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

Students will explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, microorganisms, drug resistant organisms, and emerging diseases. Prerequisites: Successful completion of Biology and Chemistry. (13020700) (YSMH11) (ATC)

### **Medical Terminology, Grades 10-12, 1 Credit**

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. (13020300) (YSTR11) (ATC)

### **Pathophysiology, Grades 11-12, 1 Credit [Weighted Credit]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and

how humans are affected. Emphasis is placed on prevention and treatment of disease, causes, signs and symptoms, and diagnostic tests. Students will differentiate between normal and abnormal physiology. Prerequisites: Successful completion of Biology and Chemistry. (13020800) (YSPH11) (ATC)

#### **Pharmacology, Grades 11-12, 1 Credit**

The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers. Prerequisites: Successful completion of Biology and Chemistry. (13020950) (YSHR21) (ATC)

#### **Practicum in Health Science in CNA (Certified Nurse Assistant), Grade 12, 2 Credits [Weighted Credit]**

For students interested in pursuing health care careers, this course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. Certified Nurse Assistant (CNA) certification is available through this class. Prerequisites: Successful completion of Health Science Theory and Biology. (13020500) (YSHH51) (ATC)

#### **Practicum in Health Science in Certified Patient Care Technician, Grade 12, 2 Credits [Weighted Credit]**

For students interested in pursuing health care careers, the patient care technician certification (CPCT) program is designed to teach an expansion of healthcare skills through experience in the classroom, online study, skills laboratory, and clinical rotation. While training to serve in the role of a nursing assistant, the student will also learn new and advanced skills earning certification as a phlebotomy technician (CPT) and certification as an electrocardiography technician (CET). The advanced skills achievement will broaden the postgraduates' scope of job opportunity and serve as a preparatory tool for college education. Prerequisites: Successful completion of Health Science Theory and Biology. (13020500) (YSHH71) (ATC)

#### **Practicum in Health Science in Emergency Medical Technician - Basic, Grade 12, 2 Credits [Weighted Credit]**

##### **[CTE College Credit]**

Emergency Medical Technician (EMT) Basic training is designed to prepare students to provide basic life support measures, as a member of an ambulance crew, at the scene of an accident, during transport to a hospital or medical facility, and in the medical facility. Class work includes the courses required by the Texas Department of State Health Services EMS Division and the U.S. Department of Transportation (US DOT) National Emergency Medical Services (EMS) Education Standards. Course work combines classroom lecture, practical skills, and laboratory. Students must be 18 to sit for the exam and will be responsible for additional clinical rotations through South Plains College after graduation. Students prepare to earn the National Registry Emergency Medical Technician certification. Prerequisites: Successful completion of Health Science Theory and Biology. (13020500) (YSHH81) (ATC)

## Hospitality & Tourism

### **Introduction to Culinary Arts, Grades 9-10, 1 Credit**

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry-level course for students interested in pursuing a career in the foodservice industry. Students prepare to earn ServSafe Food Handlers Certification. (13022550) (YHCR11)

### **Culinary Arts, Grades 10-12, 2 Credits [Weighted Credit]**

The fundamentals and principles of the art of cooking and science of baking and includes management and production skills and techniques. Recommended Prerequisites: Successful completion of Introduction to Culinary Arts and ServSafe Food Handlers Certification. (13022600) (YHCH21)

### **Advanced Culinary Arts, Grades 11-12, 2 Credits [Weighted Credit]**

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment. Students prepare to earn the ServSafe Manager certification. Prerequisite: Successful completion of Culinary Arts. (13022650) (YHCH31) (ATC)

### **Internship and Extended Internship in Culinary Arts, Grade 12, 2-3 Credits [Weighted Credit]**

This course is a unique paid or unpaid internship that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences while earning two credits. A student may repeat the Internship in Culinary Arts course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. The Internship in Culinary Arts integrates academic, career, and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. If a student chooses to take an Extended Internship in Culinary Arts to earn one credit, the course must be taken concurrently with the Internship in Culinary Arts and may not be taken as a stand-alone course. A student may repeat the Extended Internship in Culinary Arts course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Prerequisite: Advanced Culinary Arts. Interview required. Transportation required. (13022700) (YHCH81—2 credits) (13022705) (YHCH91—3 credits) (ATC)

## Human Services

### **FAMILY AND CONSUMER SCIENCES PATHWAY**

#### **Principles of Human Services, Grades 9-10, 1 Credit**

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. (13024200) (YPHR11) (XCTV11-CTED)

#### **Child Development, Grades 10-12, 1 Credit**

This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. (13024700) (YPVR11)

#### **Interpersonal Studies, Grades 9-12, 1/2 Credit**

This course examines how the relationships between peers, individuals, and family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. (13024400) (YPIR10) (XCTE31 - CTED)

#### **Lifetime Nutrition and Wellness, Grades 9-12, 1/2 Credit**

Students interested in learning how to improve their health should take Lifetime Nutrition & Wellness. Students will learn how to create nutrition and health goals to become healthier and make meaningful, permanent lifestyle changes to your life. In this course, students will learn how to make healthy snacks and meals in the foods lab! (13024500) (YPNR10)

#### **Dollars and Sense, Grades 10-11, 1/2 Credit, [CTED only]**

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers. (13024300) (XCTE11- CTED)

#### **Counseling and Mental Health, Grades 11-12, 1 Credit**

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities. Recommended prerequisite: Principles of Human Services. (13024600) (YPHR31)

#### **Project-Based Research in Human Services, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YNMH51—1 credit) (12701510—2nd Time Taken) (YNMH61—1 credit) (12701520—3rd Time Taken) (XXMH71—1 credit)

#### **Internship and Extended Internship in Human Services, Grades 11–12, 2-3 Credits [Weighted Credit]**

Internships in Human Services provides background knowledge and occupation specific training that focuses on careers in human services.(13025000—2 credits) (YCHP31) (13025005—3 credits) (YCHP41) (XCHP51- CTED, 2 credits) (XCHP61- CTED, 3 credits)

**COSMETOLOGY PATHWAY****Cosmetology I and Cosmetology I Lab (Innovative), Grade 11, 3 Credits**

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in this course with little to no guidance. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. Application required. (13025210) (YPYR11) (LHS & EHS attend Lubbock High School) (MHS & CHS attend Monterey High School)

**Cosmetology II and Cosmetology II Lab (Innovative), Grade 12, 3 Credits [Weighted Credit]**

In this course students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies, and materials; and practical skills. Students are expected to develop proficient and mastery level work samples and to expand their work experiences. After earning 1,000 supervised hours and 500 academic hours, students may test and must graduate to earn their cosmetology license. Prerequisite: Cosmetology I and Cosmetology I Lab. (13025310) (YPYH21) (LHS & EHS attend Lubbock High School) (MHS & CHS attend Monterey High School)

## Information Technology

### **Principles of Cybersecurity, Grades 9-12, 1 Credit**

Principles of Cybersecurity develops the knowledge and skills needed to master fundamental concepts of cybersecurity. Students in the course will develop a basic foundation for continuing their cybersecurity education and choosing a career in the cybersecurity field. Students will explore the challenges facing information security professionals related to ethics, system security, network security, and application security. Students will conduct risk assessments and develop and implement security policies to mitigate those risks. Students will examine trends in cyber-attacks, common vulnerabilities, and the emergence of cyber terrorism. Students prepare to earn the MTA Security Fundamentals certification. (03580850) (YISR11) (LHS)

### **AP Computer Science A, Grades 10-12, 2 Credits [Advanced Placement] [Weighted Credit]**

*3rd year math credit under Foundation Program*

*3rd or 4th year math credit under Foundation plus Endorsement Program*

The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. Students will learn to design and implement solutions to problems by writing, running, and debugging computer programs, use and implement commonly used algorithms and data structures, develop and select appropriate algorithms and data structures to solve problems, and code fluently in an object-oriented paradigm using the programming language Java. Students are expected to be familiar with and be able to use standard Java library classes from the AP Java subset, and read and understand a large program consisting of several classes and interacting objects. Students should be able to read and understand a description of the design and development process leading to such a program and recognize the ethical and social implications of computer use. Students will prepare to earn MTA Java certification. Recommended Prerequisite: Algebra I. (A3580110) (YCSH51) (A3580120) (YCSH61)

### **AP Computer Science Principles, Grades 9-12, 1 Credit [Advanced Placement] [Weighted Credit]**

Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing. Recommended Prerequisite: Algebra I. (A3580300) (YGDH51)

### **Computer Programming I, Grades 9-12, 1 Credit [Weighted Credit]**

Computer Programming I will introduce students to computational thinking, algorithmic problem solving and a variety of structured programming techniques and concepts by addressing complex problems and developing comprehensive programming solutions to common computational tasks. Students apply technical skills to address business applications of emerging technologies applicable to computer languages and hands-on technology. Students prepare to earn the MTA Python certification. Recommended prerequisite: Algebra I. (13027600) (YIPH11)

### **Computer Programming II, Grades 10-12, 1 Credit [Weighted Credit]**

Computer Programming II will allow students to expand their knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students apply technical skills to address business applications of emerging technologies applicable to computer languages and hands-on technology. Students prepare to earn the Oracle SCA Java certification. Required prerequisites: Computer Programming I or AP Computer Science A. (13027700) (YIPH21)

**Computer Maintenance, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Students prepare to earn the Comp TIA A+, CompTIA IT Fundamentals, and Testout PC Pro certifications. (13027300) (YICH11) (ATC)

**Computer Networking, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. Students prepare to earn CompTIA Network+ and Testout Network Pro. (13027400) (YINH11) (ATC)

**Computer Technician, Grades 11-12, 2 Credits [Weighted Credit]**

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. The critical thinking, information technology experience, and product development may be conducted either in a classroom setting with an instructor, with an industry mentor, or both. Students prepare to earn the CompTIA A+, Testout Client Pro, and MTA Operating Systems Fundamentals certifications. Prerequisites: Computer Maintenance or Computer Networking. (13027500) (YIMH11) (ATC)

**Video Game Design 1, Grades 9-12, 1 Credit [Weighted Credit]**

Students will design, program, and create a functional video game. The course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are math, physics, design, and computer programming. Prerequisite: Algebra I. (13009970) (YTDH11)

**Video Game Design 2, Grades 10-12, 1 Credit [Weighted Credit]**

Students will dive into the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests, and eventually applying customizations with 3-D game worlds and innovative technology. Prerequisites: Video Game Design 1, or Computer Programming, or Computer Science Principles. (N1300994) (YTDH21)

**Video Game Design 3, Grades 11-12, 1 Credit [Weighted Credit]**

Video Game Design 3 is a course intended to follow successful enrollment in VGD 2. Students in this course will explore the design, coding and marketing of mobile games. Students will learn about designing for different mobile platforms and will discuss unique issues relevant to mobile gaming including pricing, marketing, and distribution. Students prepare to earn the Unity Certified Associate certification. Prerequisite: Video Game Design 2. (N1300995) (YTDH31)

**Project-Based Research in Information Technology, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. A variety of certifications may be awarded to students' based on prior prerequisites. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YNIH51—1 credit) (12701510—2nd Time Taken) (YNIH61—1 credit) (12701520--3rd Time Taken) (YNIH71—1 credit)

**Internship and Extended Internship in Information Technology, Grades 12, 2-3 Credits [Weighted Credits]**

This course will allow students to gain industry experience in IT fields. Students will learn the implementation, maintenance, evaluation, and installation of services and systems in the help desk, networking, and server management

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in Information Technology fields. Knowledge and skills in the proper use of analytical skills and applications of information technology concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, information technology experience, and project development will be conducted in a classroom with a certification option. Students prepare to earn CompTIA A+, Network+, and/or Security+ certifications, depending on successful completion of certifications in prerequisite courses. Students shall be awarded 2 credits for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. If a student chooses to take an Extended Internship in Information Technology, the course must be taken concurrently with the Internship in Information Technology and may not be taken as a stand-alone course. Students shall be awarded 1 credit for successful completion of this course. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Teacher approval required. Transportation required. Prerequisites: Computer Maintenance, Networking & Computer Technician. (13028000) (YIRH81—2 credits) (13028005) (YIRH91—3 credits) (ATC)

## Law, Public Safety, Corrections & Security

### **Principles of Law, Public Safety, Corrections, and Security, Grades 9-10 (EHS), Grades 10-11 (ATC), 1 Credit**

This course introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections. (13029200) (YLLH11 - EHS) (YLLR11 - ATC)

### **Court Systems and Practices, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students receive an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation. Students in this course have the opportunity to compete in local and state Mock Trial competitions. (13029600) (YLCH11) (EHS and ATC)

### **Firefighter I, Grade 12, 2 Credits, (CTE College Credit)**

Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. (13029900) (YRFF11)

### **Firefighter II, Grade 12, 3 Credits, (CTE College Credit)**

Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand the Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems. Prerequisite: Firefighter I. (13030000) (YRFF21)

### **Law Enforcement I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

This course introduces students to different careers in the Law Enforcement field. Students receive an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Students in this course have the opportunity to become a member of SkillsUSA to compete in various skilled and leadership events. Recommended prerequisite: Principles of Law, Public Safety, Corrections, and Security—EHS Only. (13029300) (YLEH11) (EHS and ATC)

### **Law Enforcement II, Grades 11-12, 1 Credit [Weighted Credit] [CTE College Credit]**

This course provides opportunities for students to investigate careers in the Law Enforcement field. Students learn the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. Students in this course have the opportunity to become a member of SkillsUSA to compete in various skilled and leadership events. Required prerequisite: Law Enforcement I. (13029400) (YLEH21) (EHS and ATC)

### **Legal Research and Writing, Grades 11-12, 1 Credit [Weighted Credit]**

This class provides an introduction into the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s). Recommended Prerequisite: Principles of Law, Public Safety, Corrections & Security and Law I. Interview Process Required. (N1303014) (YLRW11) (EHS and ATC)

**Forensic Science, Grades 11-12, 1 Credit [Weighted Credit]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. Prerequisites: Biology and Chemistry. (13029500) (YLFH11)

**Project-Based Research in Law, Public Safety, Corrections, and Security, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. Prerequisites: Law I and Law II. (12701500—1st Time Taken) (YLLH51—1 credit) (12701510 2nd Time Taken) (YLLH61—1 credit) (12701520 3rd Time Taken) (YLLH71—1 credit) (EHS and ATC)

**Internship and Extended Internship in Law, Public Safety, Corrections, and Security, Grade 12, 2-3 Credits [Weighted Credit]**

This course is a unique paid or unpaid internship that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Internship in Law, Public Safety, Corrections, and Security integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students shall be awarded two credits for successful completion of the Internship in Law, Public Safety, Corrections, and Security. A student may repeat the Internship in Law, Public Safety, Corrections and Security once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. If a student chooses to take an Extended Internship in Law, Public Safety, Corrections, and Security the course must be taken concurrently with the Internship in Law, Public Safety, Corrections, and Security, and may not be taken as a stand-alone course. Students will be awarded one credit for successful completion of the Extended Internship in Law, Public Safety, Corrections, and Security. A student may repeat the Internship in Law, Public Safety, Corrections, and Security once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Required Prerequisites: Law Enforcement I and Law Enforcement II. Transportation required. (13030100) (YLLH81—2 credits) (13030105) (YLLH91—3 credits) (EHS and ATC)

## Manufacturing

### **Principles of Trades and Industrial Technology, Grades 9-10, 1 Credit**

This course provides an overview of the various fields of architecture and construction technology, machining, welding, automotive technology, and collision repair and refinishing. Each area of the Trades and Industrial fields will be broken into 9 week units. Students will have hands-on experience with small engines and simulators in the classroom. (13032200) (YMMR11)

### **Welding I, Grades 10-12, 2 Credits [Weighted Credit]**

Students learn basic training toward the (AWS) American Welding Society Code D1.1 certification. The training will include safety, SMAW (Shielded Metal Arc Welding)-stick welding, GMAW (Gas Metal Arc Welding)-MIG, GTAW (Gas Tungsten Arc Welding)-TIG, OFC (Oxy-acetylene Cutting Torch/Plasma Cutting Torch), mathematics, blueprint reading, and the manufacturing of parts and equipment. Projects will be assigned to help students master the skills needed to obtain and meet the requirements of jobs in industry and manufacturing. Students prepare to earn the (AWS) American Welding Society Code D1.1 and D9.1 certifications. Recommended prerequisite: Principles of Trades and Industrial Technology. (13032300) (YMWW11) (ATC)

### **Welding II, Grades 11-12, 2 Credits [Weighted Credit] [CTE College Credit]**

Students will receive advanced training in the welding field. Projects and welding practices will be used to help students advance their skills for the requirements to secure an entry level job, go on to college, or proceed to a technical school to further their studies in the world of welding. Students will earn two credits in Welding II but can add the Welding II Lab to earn an additional credit. Students prepare to earn the (AWS) American Welding Society Code D1.1 and D9.1 certifications. Prerequisite: Welding I. (13032400) (YMWH11) (ATC)

### **Welding II and Welding II Lab, Grades 11-12, 3 Credits [Weighted Credit]**

If students take Welding II and the Welding II Lab, students will earn 3 credits. The Welding II Lab must be taken concurrently with Welding II and may not be taken as a stand-alone course. This course is offered in a consecutive block with Welding II to allow students sufficient time to master the content of both courses. Prerequisite: Welding I. (13032410) (YMWH21) (ATC)

### **Machine Shop II Grades 11-12, 2 Credits [Weighted Credit] [CTE College Credit]**

This second year of Precision Metal Manufacturing II will provide extended training in the field. Projects will be used to help the student advance skills for the requirements to secure an entry level job, go on to college, or proceed to a technical school to further studies in metal trades. Students will work with the Mastercam software which is a computer aided manufacturing program that incorporates computer aided drafting. Students will earn two credits in Precision Metal manufacturing II but can add the Precision Metal Manufacturing II Lab to earn an additional credit. Students will earn their Mastercam Certification. Prerequisite: Machine Shop I. (13032600) (YMPH11) (ATC)

### **Machine Shop II and Machine Shop II Lab, Grades 11-12, 3 Credits [Weighted Credit]**

If students take Precision Metal Manufacturing II and the Precision Metal Manufacturing II Lab, students will earn 3 credits. The Precision Metal Manufacturing II Lab must be taken concurrently with Precision Metal Manufacturing II and may not be taken as a stand-alone course. This course is offered in a consecutive block with Precision Metal Manufacturing II to allow students sufficient time to master the content of both courses. Prerequisite: Machine Shop I. (13032610) (YMPH21) (ATC)

### **Project-Based Research in Manufacturing, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their

findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. A variety of certifications may be awarded to students' based on prior prerequisites. Students may repeat this course with different course content for up to three credits. (12701500—1st Time Taken) (YMMH51—1 credit) (12701510—2nd Time Taken) (YMMH61—1 credit) (12701520--3rd Time Taken) (YMMH71—1 credit) (ATC)

### **Internship and Extended Internship in Manufacturing, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience designed to give students supervised practical application of previously studied knowledge and skills. Internship experiences can occur in a variety of locations appropriate to the nature and level of experience. Students shall be awarded two credits for successful completion of the Internship in Manufacturing. If a student chooses to take an Extended Internship in Manufacturing and earn up to three credit hours, the Extended Internship must be taken concurrently with the Internship in Manufacturing and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of the Extended Internship in Manufacturing. A student may repeat the Extended Internship in Manufacturing once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Prerequisites: Machine Shop II or Welding II. Transportation required. (13033000) (YMMH81—2 credits) (13033005) (YMMH91—3 credits) (ATC)

## Science, Technology, Engineering, & Mathematics

### **Engineering Design and Presentation I, Grades 10-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students will learn knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas. Students will explore AutoCAD and Autodesk products and will learn Basic CAD concepts. This course must be taken concurrently with Architecture Design I. Prerequisite: Algebra I. (13036500) (YGEH11) (ATC)

### **Engineering Design and Presentation II, Grades 11-12, 2 Credits [Weighted Credit]**

This continuation of the first level Engineering Design & Presentation course will provide students the opportunity to master computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process. Students will prepare to earn the Autodesk certification. Prerequisites: Algebra I, Geometry, and Engineering Design and Presentation I. (13036600) (YGEH21) (ATC)

### **Robotics I, Grades 9-12, 1 Credit [Weighted Credit] [CTE College Credit]**

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations and educational needs in the robotic and automation industry. (13037000) (YGRH11)

### **Robotics II, Grades 10-12, 1 Credit [Weighted Credit]**

*This course satisfies a math credit requirement for students on the Foundation High School Program.*

Robotics II is a continuation of Robotics and Automation. Students will build and design competition specific robots. Students will design, prototype, and test different mechanical, electrical and computer programming mechanisms to be used at competition. Students are expected to design and model ideas using 3D CAD software and are expected to show proper use of power tools and hand tools. Students will travel to different competitions to showcase their robot and compete against other teams throughout the year. Students will also research a local need and provide a solution. Students will present this solution with cost analysis to a board of professional engineers. Students will provide a 3D computer model, a working prototype and a market analysis in their presentation. Prerequisite: Robotics I. (13037050) (YGRH21)

### **Project-Based Research in STEM, Grades 11-12, 1-3 Credits [Weighted Credit]**

This is a project-based research course for students who have the ability to research a real-world problem. Students will develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, be matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. Students shall be awarded one credit for successful completion of this course. Students may repeat this course with different course content for up to three credits. Prerequisites: Algebra I and Geometry. (12701500—1st Time Taken) (YNYH51—1 credit) (12701510—2nd Time Taken) (YNYH61—1 credit) (12701520—3rd Time Taken) (YNYH71—1 credit)

### **Internship and Extended Internship in STEM, Grade 12, 2-3 Credits [Weighted Credit]**

The internship course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the STEM Career Cluster. Students shall be awarded two credits for successful

completion of the Internship in STEM. A student may repeat the Internship in STEM once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. If a student wants to earn 3 credit hours in an Internship in STEM they may enroll in the Extended Internship in STEM and must take the Extended Internship concurrently with the Internship in STEM. Students shall be awarded one credit for successful completion of the Extended Internship in STEM. A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Prerequisites: Algebra I and Geometry. Transportation required. (13037400) (YNYH81—2 credits) (13037405) (YNYH91—3 credits)

## **MONTEREY PROJECT LEAD THE WAY ENGINEERING PATHWAY**

### **Introduction to Engineering Design, (Project Lead the Way--PLTW), Grades 9-10, 1 Credit [Weighted Credit]**

Designed for 9th or 10th grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. The major focus of this course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. (N1303742) (YGDH11) (MHS Only)

### **Engineering Science, (Project Lead the Way--PLTW), Grades 10-12, 1 Credit [Weighted Credit]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

Designed for 10th or 11th grade students, this survey course exposes students to major concepts they will encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Prerequisites: Algebra I and Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics. Recommended prerequisite: Introduction to Engineering Design. (13037500) (YGDH21) (MHS Only)

### **AP Computer Science Principles, (Project Lead the Way- PLTW), Grades 9-12, 1 Credit [Advanced Placement] [Weighted Credit]**

Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single programming language but instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing. Recommended prerequisite: Algebra I. (A3580300) (YGDH51) (MHS Only)

### **Digital Electronics, (Project Lead the Way--PLTW), Grades 11-12, 1 Credit [Weighted Credit]**

The major focus of the digital electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. Prerequisites: Introduction to Engineering Design, Engineering Science, Algebra I and Geometry. (13037600) (YGDH61) (MHS Only)

### **Engineering Design and Development, (Project Lead the Way--PLTW), Grade 12, 1 Credit [Weighted Credit]**

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students. (N1303749) (YGDH41) (MHS Only)

**MONTEREY PROJECT LEAD THE WAY BIOMEDICAL PATHWAY****Principles of Biomedical Science, (Project Lead the Way--PLTW), Grades 9-12, 1 Credit [Weighted Credit]**

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. (N1302092) (YSBH11) (MHS Only)

**Human Body Systems, (Project Lead the Way--PLTW), Grades 10-12, 1 Credit [Weighted Credit]**

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Prerequisite: Principles of Biomedical Science. (N1302093) (YGAH11) (MHS Only)

**Medical Interventions, (Project Lead the Way--PLTW), Grades 11-12, 1 Credit [Weighted Credit]**

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Prerequisites: Principles of Biomedical Science and Human Body Systems. (N1302094) (YGAH21) (MHS Only)

**Biomedical Innovation, (Project Lead the Way--PLTW), Grade 12, 1 Credit [Weighted Credit]**

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. Prerequisite: Medical Interventions. (N1302095) (YGAH31) (MHS Only)

**CORONADO ENGINEER YOUR WORLD PATHWAY****Principles of Applied Engineering, Grades 9-12, 1 Credit [Weighted Credit]**

The engineering design curriculum is for students who want to learn more about engineering and its role in shaping our world. This course engages students in authentic engineering practices in a project-based environment as it scaffolds student learning over a series of engaging and socially relevant design challenges. The curriculum focuses on creating a narrative of engineering, building engineering design skills, and developing engineering habits of mind. (13036200) (YGCH11) (CHS Only)

**Engineering Design and Problem Solving, Grades 10-12, 1 Credit [Weighted Credit]**

Engineering design is the creative process of solving problems by identifying needs and then devising solutions. This solution may be a product, technique, structure, process, or many other things depending on the problem. This course emphasizes solving problems, moving from well-defined toward more open-ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering. Prerequisites: Algebra I and Geometry. (13037300) (YGEH31) (CHS Only)

**Engineering Science, Grades 10-12, 1 Credit [Weighted Credit]**

*This course satisfies a science credit requirement for students on the Foundation High School Program.*

Engineering Science is an engineering survey course designed to expose students to some of the major concepts that they will encounter in a post-secondary engineering course of study. Students have an opportunity to investigate

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engineering and high-tech careers. In Principles of Engineering, students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. Prerequisites: Algebra I and Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics, and Engineering Design and Problem Solving. (13037500) (YGDH21) (CHS Only)

**Engineering Design and Development, Grade 12, 1 Credit [Weighted Credit]**

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students. (N1303749) (YGDH41) (CHS Only)

## Transportation, Distribution, & Logistics

### **Principles of Trades and Industrial Technology, Grades 9-10, 1 Credit**

This course provides an overview of the various fields of architecture and construction technology, machining, welding, automotive technology, and collision repair and refinishing. Each area of the Trades and Industrial fields will be broken into 9 week units. Students will have hands-on experience with small engines and simulators in the classroom. (13032200) (YMMR11)

### **Collision Repair, Grades 10-12, 2 Credits [Weighted Credit] [CTE College Credit]**

This course focuses on knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. (13039800) (YDCW11) (ATC)

### **Paint and Refinishing, Grades 11-12, 2 Credits [Weighted Credit]**

This course focuses on advanced knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing while earning two credits. Students may take the Advanced Transportation Systems Laboratory concurrently with Paint and Refinishing to earn three credits. The Advanced Transportation Systems Laboratory may not be taken as a stand-alone course, but must be taken concurrently with Paint and Refinishing lab. Students prepare to earn the I-CAR certification. Prerequisite: Collision Repair (13039900) (YDCH11) (ATC)

### **Paint and Refinishing and Advanced Transportation Systems Laboratory, Grades 11-12, 3 Credits [Weighted Credit]**

If students take Paint and Refinishing and the Advanced Transportation Systems Lab, students will earn 3 credits. The Advanced Transportation Systems Lab must be taken concurrently with Paint and Refinishing and may not be taken as a stand-alone course. This course is offered in a consecutive block with Paint and Refinishing to allow students sufficient time to master the content of both courses. (13039910) (YDCH21) (ATC)

### **Automotive Technology I: Maintenance and Light Repair, Grades 10-12, 2 Credits [Weighted Credit] [CTE College Credit]**

This course allows students to explore the possibility of becoming an entry level technician. In this course, the students will gain knowledge and skills in the repair, maintenance, and basic diagnosis. Training is provided in a combination of classroom and lab settings. This course allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in an ASE Education Foundation certified training facility. Students start preparing to earn the 10 Entry-Level Automotive Service Excellence nationally recognized certifications. (13039600) (YDAW11) (ATC)

### **Automotive Technology II: Automotive Service, Grades 11-12, 2 Credits [Weighted Credit] [CTE College Credit]**

This course allows students to use the skills and knowledge they gained in Automotive Technology and gain a deeper understanding of what is required for becoming an entry level technician. In this course, the students will gain deeper knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. Training is provided in a combination of classroom and lab settings. This course allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in a National Automotive Technician Educational Foundation (NATEF) certified facility. Students that qualify may earn the (ASE) Entry-Level Automotive Service Excellence nationally recognized certifications. Students who have completed all 10 areas of the Entry-Level certifications have the opportunity to take a Technician Level Automotive Services Excellence certification. Prerequisite: Automotive Technology I: Maintenance and Light Repair. (13039700) (YDAH21) (ATC)

**Internship and Extended Internship in Transportation Systems, Grade 12, 2-3 Credits [Weighted Credit]**

The internship is designed to give students supervised practical application of knowledge and skills. Internship experiences can occur in a variety of locations appropriate to the nature and level of experience such as mentorships, independent study, or laboratories. Once a student turns 18, they are allowed to work in a dealership or in a transportation related career. Students shall be awarded two credits for successful completion of the Internship in Transportation Systems. If a student chooses to take an Extended Internship in Transportation Systems and earn up to three credit hours, the Extended Internship must be taken concurrently with the Internship in Transportation Systems and may not be taken as a stand-alone course. Students shall be awarded one credit for successful completion of the Extended Internship in Transportation Systems. A student may repeat the Extended Internship in Manufacturing once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills. Students who have completed all 10 areas of the Automotive Service Excellence Entry- Level certifications have the opportunity to take a Technician Level Automotive Service Excellence certification. Prerequisite: Automotive Technology II: Automotive Service. Transportation required. (13040450) (YDTH81—2 credits) (13040455) (YDTH91—3 credits) (ATC)

## Career Development

### **Career Preparation I Paid Internship, Grades 11-12, 2 Credits**

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a wide variety of skills for a changing workplace. Career Preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Application required. Transportation arrangements required. (12701300) (YCPR11)

### **Career Preparation I and Extended Career Preparation I Paid Internship, Grade 12, 3 Credits**

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed. This course must be taken concurrently with Career Preparation I and cannot be taken as a stand-alone course. Application required. Transportation arrangements required. (12701305) (YCPR21)

### **Career Preparation II Paid Internship, Grade 12, 2 Credits**

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success. Prerequisite: Career Preparation I. Application required. Transportation arrangements required. (12701400) (YCPR31)

### **Career Preparation II and Extended Career Preparation II Paid Internship, Grade 12, 3 Credits**

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Prerequisite: Successful completion of one or more advanced career and technical education courses that are part of a coherent sequence of courses in a Career Cluster related to the field in which the student will be employed. This course must be taken concurrently with Career Preparation II and may not be taken as a stand-alone course. Application required. Transportation arrangements required. (12701405) (YCPR41)