

**DIAMOND BAR HIGH SCHOOL
2015 – 2016
COURSE DESCRIPTION BOOKLET**

STUDENT SUPPORT

ACADEMIC SUPPORT

GRADE 9 – 12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: GLC Approval

The purpose of this class is to provide students with the skills needed to succeed in their academic classes. Students will receive resources and strategies to help with goal setting, time management, organization, and career exploring and planning. This class also gives students an opportunity during their school day to: work on homework and projects; prepare for tests; get academic assistance from peer tutors; work on a computer tutorial program; and organize themselves in order to be better prepared for class.

STUDY SKILLS

GRADES 9-12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Case Carrier Approval

The purpose of this course is to give students the academic tools necessary to be successful at the high school level and beyond. This class is designed to give students the opportunity to be accountable for their own academic careers. The course gives students extra time during the school day to complete coursework from other classes. They are exposed to a wide variety of study skills to assist them in passing their courses. Students are taught healthy study habits, note taking systems, study tactics, planning/time management, and the introducing and establishing healthy routines on daily and weekly basis.

ENGLISH, CAREER EDUCATION, AND THE ARTS

ENGLISH

ENGLISH I/ENGLISH I SHELTERED

GRADE 9

10 CREDITS

YEAR

This contents-based course emphasizes both reading and writing and exposes students to significant literary works and genres. It also emphasizes the integration of listening, speaking, reading and writing skills through the study of short stories, poetry, drama, non-fiction, and novels. Active participation is integral to this course as it allows students to create and present projects based on the literature studied. Students will increase their vocabulary and improve writing skills through direct instruction. Sheltered classes are taught by teachers specifically certified to teach Specially Designed Academic Instruction in English to second-language students. (UC/CSU/NCAA)

ENGLISH I HONORS

GRADE 9

10 CREDITS

YEAR

PREREQUISITE: Grade of "A" in 8th Grade English Language Arts or "B" or higher in 8th Grade English Language Arts Honors and proficient.

This contents-based course provides students with an opportunity to read and study a wide range of literature at a challenging level. During the year, students will read and analyze a variety of genres, including: short stories, poetry, fiction, non-fiction, drama, epic, grammar, writing and vocabulary development. The course emphasizes analytical writing and reading, discussion, presentation skills and advanced vocabulary skills. (UC/CSU/NCAA)

ENGLISH II/ENGLISH II SHELTERED

GRADE 10

10 CREDITS

YEAR

This contents-based course is literature-based and emphasizes both reading and writing. Students are exposed to significant literary works. Students will continue to develop listening, speaking, reading and writing skills through the study of short stories,

poetry, drama, non-fiction, and novels. Active participation is integral to this course. Sheltered classes are taught by teachers specifically certified to teach Specially Designed Academic Instruction in English to second-language students. (UC/CSU/NCAA)

ENGLISH II HONORS

GRADE 10

10 CREDITS

YEAR

PREREQUISITE: Grade of “A” in English I or grade of “B” or better in English I Honors and Proficient.

This contents-based course combines skills in writing, language, and literature. Students will learn to organize and develop a variety of essay types, and also study the major forms of literature focusing on British literature. Emphasis is placed on active-participation; students will integrate the skills of reading, writing, listening, speaking and thinking through group and individual participation. Summer reading and responses required. (UC/CSU/NCAA)

ENGLISH III/ENGLISH III SHELTERED

GRADE 11

10 CREDITS

YEAR

This contents-based class is literature-based and continues the emphasis on reading and writing. Students read and analyze significant American literary works, as well as further develop their grammar, writing and vocabulary skills. Sheltered classes are taught by teachers specifically certified to teach Specially Designed Academic Instruction in English to second-language students. (UC/CSU/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU NCAA: Qualifies for NCAA Eligibility Center for student athletes.

ENGLISH III HONORS (ENGLISH IB HL1)

GRADE 11

10 CREDITS

YEAR

PREREQUISITE: Completion of English II Honors with a grade of “B” or better, or completion of English II with a grade of “A”.

This course is the first year in a two-year program designed to satisfy the requirements of International Baccalaureate (Language A1, HL) and/or to prepare students to take the Advanced Placement Examination in Literature at the end of their senior year. The entire two-year sequence focuses on the exploration of the human condition and upon various responses to the human dilemma. This college preparatory course will combine a thematic study of American Literature with viewpoints and philosophies found in major works from other cultures (including Asia and Africa). Students will be exposed to college level literature that may contain mature themes. This is a rigorous course requiring many hours of study. (UC/CSU*/NCAA)

ENGLISH IV/ENGLISH IV SHELTERED

GRADE 12

10 CREDITS

YEAR

The first semester of this two-semester standards-based course will focus primarily on the writing process and developing critical reading skills. During the second semester, students will study representative literary works from the following periods: the English Renaissance, the Restoration and Enlightenment period, the Romantic Movement, the Victorian Era and Modernism. Culminating projects will include expository essays, poetry analysis and a research paper. Sheltered classes are taught by teachers specifically certified to teach Specially Designed Academic Instruction in English to second-language students. (UC/CSU/NCAA)

ENGLISH IV EXPOSITORY READING & WRITING COURSE

GRADE 12

10 CREDITS

YEAR

This English course will focus on expository reading and writing in addition to critical thinking through the study of current, relevant, and thought-provoking issues. The course is aligned with California English Language Arts standards and addresses the skills needed to excel in college English: critical reading in addition to expository, analytical, and argumentative writing. This course is open to all students but may be particularly useful for those seniors who did not achieve “college readiness” status in the English EAP portion of their CAASP - previously known as the STAR report. (UC/CSU/NCAA)

ENGLISH LANGUAGE & COMPOSITION AP

GRADE 11

10 CREDITS

YEAR

PREREQUISITE: Completion of English II with a grade of “A” or English II Honors with a grade “B” or better and Proficient.

Advanced Placement English Language and Composition (previously known as Rhetoric) is the equivalent of a first-year college composition course that prepares students to write effectively and confidently in their college courses by developing skills in close reading, critical thinking and rhetorical techniques. This course emphasizes expository, analytical and argumentative writing forms

based on a variety of non-fiction texts including autobiographies, essayists, historical writers, diarists and political writers that span a variety of time periods and cultures. Extensive summer reading and writing are required. Students will be exposed to college level literature that may contain mature themes. This college-level course prepares students to take the Advanced Placement Language & Composition test and possibly earn college credit. (UC/CSU*/NCAA)

ENGLISH IV LITERATURE & COMPOSITION AP (ENGLISH IB HL2)

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: Completion of English III Honors with a grade of “B” or better OR 2) “B” or better in AP Language & Composition OR 3) a score of “3” or better on the AP Language & Composition Test.

Advanced Placement Literature is the equivalent of a first-year college literature course which will help students discover meaning in literature by enabling them to be attentive to language and the various techniques authors use to evoke emotional and intellectual responses from readers. Through extensive work in literary analysis of major writers, the course will prepare students to interpret, analyze and discuss (in writing) a variety of poetry, novels, plays, short stories and essays. This college-level course prepares students to take the Advanced Placement English Literature and Composition test and possibly to earn college credit. Extensive summer readings and responses are required. Students will be exposed to college level literature that may contain mature themes. (UC/CSU*/NCAA)

ENGLISH IV HONORS

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: Completion of English III Honors with a grade of “B” or better and Proficient or above in previous year’s STAR English Language Arts test OR 2) “C” or better in AP Language & Composition OR 3) a score of “3” or better on the AP Language & Composition Test or Completion of English III with an “A” or better , second semester.

The English IV Honors curriculum centers on the study of classical; contemporary; and non-fiction literature. Students will incorporate common core curriculum by focusing on the essential questions throughout the year that fuel literary expression throughout thematically based units. In addition to close reading of the texts, students will work cohesively to develop understanding of the mechanics of literary effects that continue to have a powerful effect on the way we think. Students will work to develop clear, authoritative voices that develop analyses and arguments from carefully developed reasons and well supported assertions. Connections to other disciplines, life experiences and world events will also be used to help students connect to literary content. College and workplace readiness is a focal point of the class. (UC/CSU/NCAA)

ENGLISH LANGUAGE DEVELOPMENT (ELD) (Level I)

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Placement by ELD Instructor

This level I class will prepare students to use listening speaking, reading & writing skills necessary to communicate in English. The focus of this level will be the development of listening & speaking skills.

ENGLISH LANGUAGE DEVELOPMENT (ELD) (Level II)

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Placement by ELD Instructor

This level II class will continue developing students’ communications skills while concentrating on comprehension, discussion, evaluation and composition.

ENGLISH LANGUAGE DEVELOPMENT (ELD) (Level III)

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Placement by ELD Instructor

This final course in the English Language Development Program is the last step in preparing students for a full core-content area schedule. Students continue to approach fluency in receptive and expressive use of English in academic settings. Listening and oral skills are further refined and reading and writing skills are further developed by including the reading and analysis of selected ninth, tenth, and eleventh grade core literature and by the writing of multi-paragraph essays. Among other tasks, students react and respond to literature and identify various literary elements and techniques as well as authors’ purposes. (UC/CSU)

ALTERNATIVE INSTRUCTIONAL PROGRAM LANGUAGE LAB (AIP)

GRADES 9-12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Placement by ELD instructor and concurrent placement in ELD I

This course will provide academic support for students, enabling them to comprehend and be successful in sheltered academic courses. Additional study skills and strategies will be taught in English.

JOURNALISM I

GRADES 9-11

10 CREDITS

YEAR

PREREQUISITE: Grade of "A" in previous English class or a "B" or better in English Honors class.

This course is an introduction to journalistic writing and other skills required to be part of the staff of The Bull's Eye, the school newspaper. Students will learn about the history of journalism, the art of interviewing, writing news, features, sports and reviews and become familiar with photojournalism and newspaper design. The class offers students the opportunity to write for the Bull's Eye and apply for positions for next year's staff. (Applied Arts)

JOURNALISM II

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: Teacher permission through application and Journalism I experience

This course is for students who have been selected for the staff of the student newspaper, The Bull's Eye, after completing Journalism 1. The students in this class assign, write and edit stories; design pages and graphics; and take photos, all for the monthly newspaper and its website. Students participate in all aspects of the operation of the paper: selling ads, fundraising, supervising other writers and editors and working with printers. (Applied Arts) (UC/CSU "G" Elective)

YEARBOOK

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: Permission from instructor and grade of B or better in previous English class

This course has the responsibility of publishing and financing the school yearbook. Students learn on-the-job skills in layout, graphics, technology software, design, desktop publishing, photography, writing, organization and leadership. Students who are interested in the challenge of meeting deadlines in the exciting world of publishing are encouraged to apply for a staff position. Photographers and writers must submit samples of their work. Repeatable for credit. (Applied Arts)

CAREER EDUCATION & ROP CLASSES

ADMINISTRATION OF JUSTICE – ROP

GRADES 9-12

5/10 CREDITS

SEMESTER/YEAR

Administration of Justice is an introduction to personal, practical law. This course is designed to prepare students to recognize and understand how the law works in their communities. It shows students how the law strives to promote fairness, equal justice, and individual rights so they will understand the value of acting as responsible citizens. The aim of this course is to give students a working knowledge of the law, to help them avoid legal problems and show them how to handle problems of this type when they occur. In addition, this course provides insights into professions within the criminal justice system such as criminologists, attorneys, federal and state law officials. Concepts of law learned in this class will be useful to you for the rest of your life as you will be better equipped than most citizens to recognize legal problems and to utilize professional counsel. Juniors and Seniors are eligible to receive up to 6 semester college credits through Mt. San Antonio College that are transferable to the CSU and UC school system. This course may be taken for two semesters and earn 10 credits. The first semester articulates with Mt. SAC course ADJU1 – Administration of Justice and second semester meets Mt. SAC requirements for ADJU3 – Concepts of Criminal Justice. Students may take one or both semesters and sequence does not matter. (Applied Arts) (UC/CSU through San Gabriel ROP "G" Elective)

CONSTRUCTION – ROP

GRADES 9-12

5/10 CREDITS

SEMESTER/YEAR

This course has been designed to give students entry-level employment skills as construction trade helper in the following areas: carpentry, plumbing, remodeling techniques, electrician, dry-wall applicator, tile setter, and painter. (Applied Arts)

COOPERATIVE VOCATIONAL EDUCATION (CVE/WORK EXPERIENCE) – ROP

GRADE 12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Must be gainfully employed

This course combines paid employment with classroom instruction. Students will attend their own jobs during the week and also attend a class session twice a week at school. Students will develop work habits, attitudes, self-confidence and job skills which can be used to locate, secure and retain employment in the community. (Applied Arts)

PHOTOGRAPHY

GRADES 11-12

10 CREDITS

YEAR

PREREQUISITE: Basic computer skills are recommended.

Diamond Bar High School is proud to offer students an opportunity to study photography and electronic imagery. The class is designed to help prepare the students for the changing world of photography. In this class, the students will use digital cameras and scanners to capture images. Progressing through the following six units will help students become proficient photographers: 1) Understanding Digital Cameras and Computer Hardware 2) Using Available Light; Daylight and Nightlight 3) Using Artificial Light; Flash - and Studio Photography 4) Edit, Print, Display, Combine Images Using Photoshop 5) Photographing Children and Domestic Animals 6) Photo Journalism, Portfolio, Publishing on the Internet. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

PHOTOGRAPHY II

GRADES 11-12

10 CREDITS

YEAR

PREREQUISITE: 1. Basic computer skills. 2. Desire to be creative.

After finishing this course, you will be able to create almost anything you can imagine in your mind. If you apply yourself all year, you will learn everything there is to know about Adobe Photoshop so that you can make professionally looking composite photos, banners, color and black and white pictures. You will be able to manipulate images by using layers and you will understand how to take your creations to the proper places for optimum looking prints. With Adobe Photoshop and Adobe ImageReady, you will create fantastic looking animations as well. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

DIGITAL VIDEO PRODUCTION

GRADES 9 – 11

10 CREDITS

YEAR

This course provides video basics and participation in the pre-production, production, and post-production processes of filmmaking. This course includes camera operation, audio recording, composition, scriptwriting, storyboarding, editing, distribution, and evaluation of films. Film analysis will include story elements, design, location, lighting techniques, special effects, and more. Student will analyze films of various genres and complete various projects including commercials, PSAs, music videos, indies, trailers, documentaries, shorts, instructional videos, and community service projects. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

INTERMEDIATE DIGITAL MEDIA PRODUCTION

GRADES 10 – 12

10 CREDITS

YEAR

PREREQUISITE: Completion of Digital Video Production with a grade of "C" or better and/or instructor approval.

This course builds upon the concepts of video production and participation in the pre-production, production, and post-production processes of filmmaking learned in Digital Video Production. Film analyses will continue and students will learn additional techniques to advance graphic design in filmmaking. Students will complete service learning projects that will promote school and community events. Repeatable for credit. (Applied Arts) (UC/CSU "F" Elective VPA)

ADVANCED DIGITAL MEDIA PRODUCTION

GRADES 10 – 12

10 CREDITS

YEAR

PREREQUISITE: Completion of Intermediate Digital Media Production with a grade of "C" or better and/or instructor approval

This course provides advanced video production and participation in the pre-production, production, and post-production processes of filmmaking. Students in this course will be expected to complete school service projects and assist site needs in film production. Students in this course will be producing marketable films for distribution in school, community, and festivals. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

FUNDAMENTALS OF GRAPHICS - ROP
GRADES 9-12
5/10 CREDITS **SEMESTER/YEAR**

This course will provide an introduction to the screen printing trade. Students will explore copy preparation, mesh selection, frames, stencil systems, printing techniques, ink and substrate compatibility, reclamation of screens, and how screen printing affects the finishing processes. A combination of technical laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed projects is a major goal of this course. Projects will be produced by the use of single-color station, four-color rotary textile press, graphic arts camera, flash and belt dryers-emphasis on safe use of materials and equipment.
(Applied Arts)

PRODUCTION GRAPHICS - ROP
GRADES 10-12
5/10 CREDITS **SEMESTER/YEAR**
PREREQUISITE: Fundamentals of Graphics

This is an intermediate printing course. Students will develop projects on an individualized basis applying skills developed in FUNDAMENTALS OF GRAPHICS. Projects are designed to be more technical in nature. Multi-colored projects will be produced by the use of the adjustable single-color station, four and six-color rotary textile press, graphic arts camera, Adobe Photoshop CS to create artwork, flash/belt dryers, and the skateboard printing press-emphasis on safe use of materials and equipment. Repeatable for credit. (Applied Arts)

COMMERCIAL/FINE ART GRAPHICS - ROP
GRADES 10 – 12
5/10 CREDITS **SEMESTER/YEAR**
PREREQUIITE: Production Graphics

This is an advanced printing course. Students will focus on the professional aspects of the graphics industry-Emphasis on the production of high quality fine art prints/commercial products. Repeatable for credit. (Applied Arts)

STAGECRAFT - ROP
GRADES 9-12
5/10 CREDITS **SEMESTER/YEAR**
PREREQUISITE: Instructor's Approval

This class focuses on the technical aspects of theatre. The entire class studies all areas and students are allowed to specialize in specific areas. Topics covered include play production, costuming, make-up, set design and production at several local festivals. Requires attendance at all school performances and outside hours spent on semester production. This class is held on campus. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

SPORTS & ENTERTAINMENT MARKETING - ROP
GRADES 9 – 12
5/10 CREDITS **SEMESTER/YEAR**

This course is designed to provide students with hands-on training in sports and entertainment marketing. Using on-campus events, students will develop and present a variety of marketing strategies. Working in partnership with local professional sport franchises, students will be given the opportunity to interact with practicing professionals. This class is held on campus. (Applied Arts)

ARCHITECTURAL DESIGN
GRADES 9-12
10 CREDITS **YEAR**
PREREQUISITE: None

This is a two semester class that introduces the student to the principles of architectural design. The student will be introduced to the architectural design principles including: line, forms, values of lines, texture, volume, space and various art forms to develop interior and exterior living areas. The student will complete a set of house plan designs using the above principles which also meets the minimum standards of the Uniform Building Code for residential construction. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

ADVANCED ARCHITECTURE & ENGINEERING TECHNOLOGY

GRADES 10 -12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Architectural Design

Students in this course will work on an individual basis. A choice of curricular areas include: Residential Architecture, Commercial Architecture, Mechanical Drawing, Pre-engineering, Model making, Competition drawings, and project design. Projects may be done on the board or on CAD. Uniform Building Code and industrial standards are taught and utilized. Repeatable for credit. (Applied Arts)

WOODWORKING TECHNOLOGY - ROP

GRADES 9 - 12

5/10 CREDITS

SEMESTER/YEAR

This class is designed to teach students proper operation of woodworking machinery. Machines include the jointer, planer, table saw, radial arm saw, band saw, jig saw, drill press, power sanders, and portable machinery. Students will utilize standards used by industry in cabinet joinery, assembly procedures, finishing techniques, project planning, and woodworking terminology. Basic mathematical concepts and general vocabulary are practiced and reinforced in this class. Repeatable for credit. (Applied Arts)

ADVANCED WOODWORKING TECHNOLOGY - ROP

GRADES 10-12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Woodworking Technology

This is a course in advanced woodworking techniques. Students work on an individual basis to further their woodworking skills in designing and building furniture and cabinets. Students will have a choice of working on projects for school or for themselves. Projects can be as simple as a wall shelf or as complicated as roll top desks and coffee tables. Repeatable for credit. (Applied Arts)

HEALTH CAREERS

GRADES 9 – 12

5 CREDITS

FALL SEMESTER

Health Careers is designed to broaden the students' knowledge of the growing and ever-changing health field, including the various careers contained therein. Students can expect to learn medical vocabulary; general workplace practices pertaining to communication, confidentiality, safety, and ethics and legal matters; growth and development of the human body; infection control; basic anatomy and physiology; cardiopulmonary resuscitation and first aid; measuring vital signs; and basic patient observation skills. Students may be required to spend time after school observing the theories and principles learned in the classroom at various health career settings. (Applied Arts)

EMERGENCY MEDICAL SERVICE (Introduction)

GRADES 9 – 12

5 CREDITS

SPRING SEMESTER

Students will be introduced to health team responsibilities regarding emergency calls, evaluation of emergency and appropriate action to respond to emergency calls. This course teaches the skills necessary to provide immediate care to critically ill and injured patients, preparing students for advanced training in the EMT-Basic, CNA, Medical Assisting and other medical careers. Students may be required to spend time after school observing the theories and principles learned in the classroom at various health career settings. (Applied Arts)

SPORTS PHYSICAL THERAPY

GRADES 9 – 12

10 CREDITS

YEAR

PREREQUISITE: Health Careers and Emergency Medical Services (Introduction)

Students will receive instruction in basic anatomy and physiology, preventative sports medicine, and the fundamentals of fitness. Sports Physical Therapy prepares students interested in careers as Physical Therapy Aides, Athletic Trainer Assistants, or Exercise Assistants. During the practical application of their content skills, students will support DBHS athletic programs. Additional hours outside of class at sporting events may be required. This course is articulated with PE 19 at MT SAC, and successful completion of the course qualifies students to take credit-by-examination at the college. (Applied Arts)

SPORTS PHYSICAL THERAPY (ADVANCED)

GRADES 11 – 12

10 CREDITS

YEAR

PREREQUISITE: Sports Physical Therapy

This course is designed for students in the student athletic training program, and provides a more in-depth study and application of the components of sports medicine including but not limited to: creative rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the upper extremity, trunk, head and face; injuries to the young athlete, drugs in sports; modern issues in sports medicine. Individualized and independent assignments will be included in this course. During the practical application of their content skills, students will support DBHS athletic programs. Additional hours outside of class at sporting events may be required. (UC "G" elective)

GRAPHIC ARTS/MULTIMEDIA

GRADES 9 – 12

10 CREDITS

YEAR

In this program, students receive a foundation of up-to-date classroom instruction using today's latest software and state-of-the-art PC computers. Using Adobe Photoshop, Illustrator, InDesign, Adobe Go Live, QuarkXPress, PowerPoint and Final Cut Pro digital editing students will demonstrate the use of the programs for photographic image rendering and manipulation, drawing and coloring, ad design, graphic and text placement, page layout, and Public Service Announcements. (UC "F" requirement)

ENVIRONMENTAL SCIENCE (ROP)

GRADES 10 – 12

10 CREDITS

YEAR

This course provides students with a foundation of understanding, knowledge and skills to deal effectively with environmental problems. Students learn a variety of basic laboratory and field techniques, including specimen sampling and processing, site monitoring documentation, inspection and emergency response. When possible students have the opportunity to work with or consult experts in various environmental fields. The course incorporates both academic and applied studies. The structure and function of natural ecosystems, the history of the environmental movement and the impact of laws, economic and political systems on environmental concerns are taught. Students also gain a broad awareness of environmental science and technological career opportunities. Job shadowing and internships are encouraged. An emphasis is placed on students making a positive impact on the environment. (UC "D" elective/NCAA)

DANCE

BEGINNING DANCE

GRADES 10 -12

10 CREDITS

YEAR

PREREQUISITE: None

Students will learn and develop fundamental dance skills in the areas of Ballet, Jazz, Modern, Musical Theatre, Tap and Folk Dance, as well as gain experience in both production methods and performance. The student will gain an understanding of dance from a historical context; gaining knowledge in dance as it developed from merely a means of communication to its social significance in today's society. Students are expected to participate in a dance concert at the end of each semester which may require rehearsals outside of normal school hours. Students will also be encouraged to attend one live dance performance off campus. (Fine/Applied Arts, PE) (UC/CSU "F" Elective VPA)

INTERMEDIATE PERFORMANCE ENSEMBLE

GRADES 9 – 12

10 CREDITS

YEAR

PREREQUISITE: Teacher approval with a "B" grade or better in Beginning Dance or through audition. Intermediate dance students will refine their skills and dance technique.

Students will continue to develop dance skills and be introduced to performance of more abstract dance forms, staging and rhythms. Intermediate dance students will learn the necessary tools in order to choreograph their own dance for upcoming performances. Students will apply the principals of composition in order to choreograph pieces and will be given the opportunity to audition to be in a dance concert at the end of each semester. Enrollees are expected to participate in rehearsals outside of the normal school hours. Dancers will explore the historical and academic areas related to the field of dance. Repeatable for credit. (Fine/Applied Arts/PE) (UC/CSU "F" Elective VPA)

PERFORMANCE DANCE ENSEMBLE

GRADES 10 -12

10 CREDITS

YEAR

PREREQUISITE: Grade of "B" or better in Beginning Dance and/or permission of instructor and audition.

Students will continue to refine their skills and dance techniques. They will develop more advanced dance skills and expand their knowledge in the understanding and performance of more abstract dance forms, staging and rhythms. Students will apply the principals of composition in order to choreograph performances and are expected to participate in a dance concert at the end of each semester which will include rehearsals outside of normal school hours. Dancers will explore the historical and academic areas related to the field of dance. Students will also be required to attend at least one live dance performance, each semester, off campus. Repeatable for credit. (Fine/Applied Arts/PE) (UC/CSU "F" Elective VPA)

DANCE TEAM

GRADES 9 - 12

10 CREDITS

YEAR

PREREQUISITE: Audition only. 2.0 GPA and previous dance experience either at school or studio

This performance based class meets daily, first period. Dancers are expected to perform in field shows, at rallies, concerts and other school events, attend daily practices both on and off campus and compete during spring season. Students will develop more advanced dance skills and expand their knowledge in performance venues. Dance Team members will collaborate in order to choreograph for upcoming performances and build a disciplined company unit. Dancers will explore historical and academic related to the field of dance. Competitions involve travel both nationally and internationally. Practices and performances take place outside the normal school hours and include, evenings, weekends, holidays, summers, and vacation breaks. Dance Team begins its season the second week of August and attendance is required. Repeatable for credit. (Fine/Applied Arts/PE)

PEP

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITES: Tryout/Audition and personal recommendations after attending week-long clinic.

The major emphasis of the Pep Squad (Cheerleaders/ Songleaders) is to lead school spirit, provide opportunity for skilled students to support other athletic teams, and compete at nationally ranked competitions. The Pep Squad builds character and self-esteem, develops leadership skills, responsibility, accountability, builds athletic skills and provides a basic understanding of the rules of a variety of sporting events. Those selected are expected to attend all practices (beginning after tryouts), performances, and competitions and most of which take place outside of the normal school day; in the evenings, on weekends, on holidays and on vacations. Repeatable for credit. (Applied Arts/PE)

ART

FUNDAMENTALS OF ART

GRADES 9-12

10 CREDITS

YEAR

This class is an introduction to the elements of art and the principles of design and is a prerequisite course for IB Art and Design. Students will explore various art media, think creatively, express ideas clearly, and demonstrate responsibility. (Fine Arts/ Applied Arts) (UC/CSU "F" Elective VPA)

STUDIO ART

GRADES 10 - 12

10 CREDITS

YEAR

PREREQUISITE: Completion of Fundamentals of Art with a "C" or better.

Studio Art is a year course founded upon prior artistic experience, understanding and knowledge of the Elements and Principles of Design. It is designed to reflect an artist's studio where a wide variety of mediums and projects create a challenging yet fun atmosphere. The student will explore many techniques while completing art projects that require higher level artistic solutions. Opportunity for student work to be submitted in art competitions throughout the county may occur. The course will culminate with an "Art-On-The-Lawn" show at the end of the year. Some historical and cultural contributions to the visual arts will be studied. This is a fun course for the student who truly enjoys art. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

**STUDIO ART AP
GRADES 10 – 12**

10 CREDITS

YEAR

PREREQUISITE: Grade of “A” in Fundamentals of Art and recommendation from the AP Art Teacher.

Studio Art AP features work at an exceptional level of excellence in the creative application of media used in drawing, painting, sculpture design, printmaking, photography, and computer graphics. Students will produce a portfolio of work that meets the requirements of the Advanced Placement curriculum; Drawing, 2-D Design or 3-D Design. College credit is possible with the passage of the AP portfolio assessment. (Fine/Applied arts)
(CSU/UC* “F” Elective VPA)

INTRODUCTION TO 3-D DESIGN

GRADES 9-12

10 CREDITS

YEAR

The purpose of Introduction to 3-D Design is to teach the Elements of Art and the Principles of Design through the production of projects addressing sculptural issues involving depth and space. This includes considerations of mass, volume, form, plane, light, texture, and color. Such elements and concepts may be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches to representation, abstraction, and expression will be incorporated into the curriculum. These may include traditional sculpture, ceramics, metal work, plaster, wood, and three-dimensional fiber arts. Students will become proficient using this media in the production of sculptures in the round. (UC “F” Elective)

Asterisk (*): Qualifies for extra grade point UC/CSU/NCAA: Qualifies for NCAA Eligibility Center for student athletes.

ART HISTORY AP

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: “A” in English.

This art history course traces the development of global artistic accomplishments from prehistory to the present. Its content includes attention to the disciplines that lead to an understanding of art history, art criticism, aesthetics, and cultural context. This class is recommended for students with a strong interest in art and excellent study skills. College credit is possible with the passage of the AP test. (Fine/Applied Art) (CSU/UC* “F” Elective VPA)

VISUAL ART IB SL

GRADE 11-12

10 CREDITS

YEAR

PREREQUISITE: “A” in Fundamentals of Art and recommendation from the Art Teacher.
(Fine/Applied Arts) (UC/CSU* “F” Elective VPA)

VISUAL ART IB HL1

GRADE 11

10 CREDITS

YEAR

PREREQUISITE: “A” in Fundamentals of Art and recommendation from the Art Teacher.
(Fine/Applied Arts) (UC/CSU* “F” Elective VPA)

VISUAL ART IB HL2

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: “A” in Fundamentals of Art and recommendation from the Art Teacher.

IB Visual Arts sequence of classes includes an exploration of a variety of experiences in imaginative and creative thinking. Students will focus on the acquisition of technical skills utilizing a wide variety of media, historical and cultural context, and internationalism. Drawing, painting, two-dimensional and three dimensional design, computer graphics, photography, and multi-media exploration are included in the curriculum. Students will develop an in-depth attitude towards studio work and research through the production of a portfolio and research workbook. (Fine/Applied Arts) (UC/CSU* “F” Elective VPA)

MUSIC

MARCHING BAND (P.E.)

GRADES 9-12

5 CREDITS

FALL SEMESTER ONLY

PREREQUISITE: Must have previous band experience on a band instrument

This class emphasizes marching band and includes techniques of both parade and field marching. Performances occur outside of the regular school day in the evening, on weekends, and holidays. Marching band may be taken in lieu of P.E. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts/P.E.)

CONCERT BAND

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Must have previous band experience on a band instrument

This course is intended to give the student a balanced program of music representing a variety of styles and cultures. This class is intended for freshmen students but is open to all grade levels. Performances occur outside of the regular school day in the evenings, on weekends and holidays. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

CONCERT ORCHESTRA

GRADES 9-12

10 CREDITS

YEAR

PRE-REQUISITE: Consent of instructor

This course is designed for the intermediate string, wind and percussion student who has moderate experience on traditional orchestral instruments. The class will focus on large and small ensembles. Performance and rehearsal music will be selected from the standard orchestral and string ensemble repertoire. Emphasis will be placed on a comprehensive understanding of proper performance practice, an understanding of the historical context of the music, analysis of form and harmony, and the ability to evaluate both the quality of performance, and the long term value of the music. Performances occur both within the school day, and outside of the regular school day in various settings. (Fine/Applied Arts – UC/CSU "F" Elective VPA)

SYMPHONIC BAND

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Must have previous band experience on a band instrument.

This course is intended to give the student a balanced program of music representing a variety of styles and cultures. This class is intended for the intermediate high school player. Performances occur outside of the regular school day in the evenings, on weekends, and holidays. This course fulfills the IB Music prerequisite. This class is repeatable for credit. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

WIND ENSEMBLE

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: Enrollment by audition and consent of Instructor.

This course is for the advanced music student. Open by audition only, select students will also provide the wind section to the symphonic orchestra, the spring musical, and participate in chamber ensembles. Performances occur outside of the regular school day in the evenings, on weekends and holidays. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

STRING ORCHESTRA

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Prior string instrument experience

This course is designed for students who have experience on traditional string orchestra instruments (violin, viola, cello, bass). Based on enrollment, the class will focus on large and small string ensembles. Music will be selected from current orchestral and string ensemble literature. Performances occur outside of the regular school day in the evenings, on weekends, and holidays. This course fulfills the IB Music prerequisite. This class is repeatable for credit. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

SYMPHONY ORCHESTRA**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Enrollment by audition and consent of Instructor.

This course is designed for advanced students who have experience on traditional string orchestra instruments (violin, viola, cello, bass). Music will be selected from current and traditional orchestral literatures. Open by audition only, select students will also perform in the spring musical and participate in chamber ensembles. Performances occur outside of the regular school day in the evenings, on weekends, and holidays. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

MUSIC THEORY AP**GRADES 10-12****10 CREDITS****YEAR****PREREQUISITE:** Previous music performance experience and ability to read music.

This AP course is designed for the advanced music student to be introduced to theory, musical materials, and procedures integrating all aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and, to some extent, history and style. Musicianship skills such as dictation and other listening skills and sight-singing are included. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)

MUSIC COMPOSITION IB SL**GRADES 11 – 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of two years of high school music ensemble experience and/or instructor approval. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)**MUSIC GROUP PERFORMANCE IB SL****GRADES 11 – 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of two years of high school music ensemble experience and/or instructor approval. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)**MUSIC SOLO PERFORMANCE IB SL****GRADES 11 – 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of two years of high school music ensemble experience and/or instructor approval. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)**MUSIC IB HL1****GRADE 11****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of two years of high school music ensemble experience and/or instructor approval. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)**MUSIC IB HL2****GRADES 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of two years of high school music ensemble experience and/or instructor approval.

Students involved in the IB Music sequence of classes will experience the breadth and variety of music in our world. Through in-depth analysis of representative works, the study of genres and styles found around the world, and concentrated effort in solo performance, group performance, or composition, students will gain an educated insight into music and enhance their personal skills as musicians. (Fine/Applied Arts) (UC/CSU* "F" Elective VPA)

COLOR GUARD**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Minimum 2.0 GPA. Tryout/Audition after mandatory week-long clinic

A class for students interested in the marching band using rifles, sabres or tall flags. Emphasis will be placed on choreography and marching skills associated with field shows and parades throughout the fall, and competitions for Color Guard in the spring.

Attendance is expected at all rehearsals and performances which begin in August and occur outside of normal school hours; in the evenings, on weekends, holidays and vacations. Color Guard may be taken for P.E. credit. Repeatable for credit. (Applied Arts/P.E.)

CHAMBER SINGERS

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Audition or Director's Approval

"Chamber Singers" is an advanced and elite choral ensemble that sings a variety of a cappella and accompanied traditional music throughout the year. They also participate in adjudicated choral festivals. Knowledge of music theory and voice training are important assets for this course but not mandatory. The Chamber Singers is open to all students by audition only or Director's approval. Members are expected to attend scheduled performances and occasional after school rehearsals. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts)
(UC/CSU "F" Elective VPA)

CONCERT CHOIR

GRADES 9 – 12

10 CREDITS

YEAR

"Concert Choir" is open to anyone on campus who enjoys singing in a group. This ensemble sings traditional choral literature in the fall and becomes an intermediate competing show choir in the spring. No dance audition is necessary. Repertoire will include a wide variety of music from the 1600s through contemporary choral literature. Repertoire includes a wide variety of music from various music eras including madrigals, classical, pop and show choir literature. All members are expected to attend scheduled performances and occasional after school rehearsals. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (CSU/UC "F" Elective VPA)

SOLITAIRE

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Director's approval

"Solitaire" is an advanced girl's ensemble that sings traditional choral literature in the fall and becomes an advanced competing show choir in the spring. This course is open to all female students who complete a singing and dancing audition and have the desire and experience to explore music from all eras including madrigals, classical, pop and show choir literature. Repertoire will also include music in other languages and ethnicities. Choral experience is necessary. Knowledge of music theory and voice training are important assets for this course but not mandatory. All members are expected to attend weekly choreography rehearsals and all scheduled performances. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

MARQUIS

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Director's approval

"Marquis" is an advanced choir that sings traditional choral literature in the fall and becomes an advanced competing show choir in the spring. This course is open to all students who complete a singing and dancing audition and have the desire and experience to explore music from all eras of music including madrigals, classical, pop and show choir literature. Repertoire will also include music in other languages and ethnicities. Choral experience is necessary. Knowledge of music theory and voice training are important assets for this course but not mandatory. All members are expected to attend weekly choreography rehearsals and all scheduled performances. This course fulfills the IB Music prerequisite. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

DRAMA

BEGINNING DRAMA

GRADES 9-12

10 CREDITS

YEAR

The class covers basic theatre skills and vocabulary. Focus of the class is on physical and vocal preparation for acting, oral interpretation and developing stage presence. Students also study improvisation and monologue preparation and performance. Second semester the course extends basic performance principals applied to monologues and scene study. Characterization, audition technique, mime, Commedia dell'arte, and an overview of world theatre are also studied. During second semester, students will complete an overview of the theories and work of seminal theatre practitioners and devise their own theatrical pieces. Students are encouraged to attend two plays during the school year and to participate in at least two performance showcases that

will occur outside regular school hours and may require rehearsals during evenings and on weekends. Repeatable for credit. (Fine Arts/Applied Arts)
(UC/CSU "F" Elective VPA)

ADVANCED DRAMA

GRADES 11-12

10 CREDITS

YEAR

PREREQUISITE: Completion of Beginning Drama, or Intermediate Drama with a grade of "C" or better and audition for instructor.

This course is designed for the student who has shown exceptional promise and motivation in the performing areas of theatre. Students are required to compete in theatre arts festivals, to assume leadership roles in the theatre events on campus, in Drama Club and with Thespians, and to participate in annual Children's Theatre and other school and/or public productions. The course also requires audition for all main stage performances. Enrollees are expected to attend all rehearsals, performances, festivals and travel which most often takes place outside of normal school hours; at night, on weekends and during vacations. Repeatable for credit. *NOTE: Students on academic probation are not eligible to audition or participate in this class.*
(Fine/Applied Arts) (UC/CSU "F" Elective VPA)

ADVANCED THEATRE – PLAYWRITING & DIRECTING

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: 1. Completion of Beginning Drama with grade of B or better, or 2. commensurate course at another school and audition for instructor.

This course is designed for the student who wants to deepen his or her knowledge of theatre through the application of skills in performance, dramaturgy, writing, and theatre leadership. Students will learn the principles of playwriting and are required write at least two short length plays, to assume leadership roles in the theatre events on campus and through the Thespian honor society. Students in this class will be primarily responsible for writing, directing, and acting in the Children's Theatre show. Students will learn the principles of directing and apply those principles in casting and directing Beginning Drama students in scenes and plays for the Fall and Spring Showcases. During second semester students will write 10 minute plays which they will then cast and direct for the Spring Showcase/10 Minute Play Festival. Students are expected to attend rehearsals and performances which most often take place outside of normal school hours; at night, on weekends and during vacations. Repeatable for credit. (Fine/Applied Arts) (UC/CSU "F" Elective VPA – Pending Approval)

ADVANCED THEATRE – THEATRICAL PRODUCTION

GRADES 9-12

10 CREDITS

YEAR

Prerequisite: Successful Audition or Application for Production Job

This course will offer instruction focused on the techniques of theatre production including acting, dance, vocal performance, and movement. The course will focus on hands on training in specific areas to create well rounded performances in each discipline culminating in live performance of staged shows. Students will be provided with additional support, master classes, coaches, and resources to prepare them for career and collegiate opportunities in the field of Theatre and Performing Arts. Students will have numerous formal and informal performance opportunities throughout the year. Students who are cast in any main stage production (the Fall Play or Spring Musical) must enroll in this course. Students who successfully apply for Production Jobs must enroll in this course and will complete projects in theatre management, publicity, design, marketing, and/or fundraising. All students will learn set construction, painting and other technical theatre skills. Students must be academically eligible and maintain a "B" grade or higher in this course. Individuals enrolled in this course are expected to participate in additional rehearsal and project management, and technical theatre work time outside of the school day including after school, weekends and vacation time. (Fine/Applied Arts) (UC/CSU "F" Elective VPA – Pending Approval)

THEATRE ACADEMY

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: APPLICATION AND AUDITION

This course is designed for the student who has shown exceptional promise, motivation, and interest in Theatre. The focus of this course is to prepare students for acceptance into a college theatre program and for a career in theatre or the performing arts. The course will provide students with hands on in-depth experience in the application of theatrical techniques. Students will receive in-depth instruction in theatre history, in the major movements in literature and art influencing the development of contemporary theatre, seminal theatre practitioners and theories, and in the interaction of theatre with the other performing and visual arts. Students will complete a rotation through three major disciplines of theatre: acting, technical theatre, and production management. Students will engage in an individualized program of study in selected areas of theatre including acting techniques, vocal technique and performance, movement & dance, direction, production management, theatrical design, and technical theatre. Students will

be provided with additional support, master classes and individual coaching in design, acting, or production management. Each student will be expected to take main leadership roles in school productions in acting, design, or production management; to complete two semester-long internships; and to attend and report on 6 outside theatrical performances per year. Prerequisite: Application, audition, and teacher recommendation. (Individualized scheduling and instruction- 280 minute per week minimum) (Fine/Applied Arts)

THEATER IB SL

GRADE 12

10 CREDITS

YEAR

This class covers basic theatre skills and vocabulary. The focus of the class is on theatrical techniques in acting, oral interpretation, and movement through exploration of world theatrical traditions. Students study and apply theatrical traditions and methods from around the world. Second semester extends basic principles to application in a design or performance project based on some theatrical tradition. Students will begin learning about dramaturgy, direction, and design. Students are encouraged to attend 4 theatrical performances including 2 from non-western theatrical traditions and participate in several field trips during the school year including overnight trips. Enrollees are expected to engage in rehearsal, research, and projects outside of regular school hours, including evenings and weekends. (UC "F" requirement)

THEATER ARTS IB HL1

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: NONE

This class covers basic theatre skills and vocabulary. The focus of the class is on theatrical techniques in acting, oral interpretation, and movement through exploration of world theatrical traditions. Students study and apply theatrical traditions and methods from around the world. Second semester extends basic principles to application in a design or performance project based on some theatrical tradition. Students will begin learning about dramaturgy, direction, and design. They are encouraged to attend 4 theatrical performances including 2 from non-western theatrical traditions and participate in several field trips during the school year including overnight trips. Enrollees are expected to engage in rehearsal, research, and project participation outside of regular school hours, including evenings and weekends. (Fine/Applied Arts) (UC/CSU "F" Elective – Pending Approval)

PATHWAYS COMMUNICATIONS ACADEMY

At each grade level, students will take a combination of required and elective courses, based on individual needs. All English, Social Sciences and lower level sciences will be taken in the Academy. Also required will be special communication/career courses at each grade level. Foreign language, math and PE will be taken outside of the Academy structure. Courses with an asterisk can be taken during any year.

SOPHOMORE YEAR - GRADE 10

English II
Integrated Science
Speech
Biology
**Digital Video Production
*Leadership

JUNIOR YEAR - GRADE 11

English III
Modern American History
**Intermediate Digital Media Production
**Career Communications
*Leadership

SENIOR YEAR - GRADE 12

Expository Reading and Writing (English IV)
American Government and Economics
Graphic Arts/Multimedia
Business Internship/Work Experience
*Leadership

The Academy is a California Partnership Program and is partnered with the school district, businesses, colleges and universities. The program requires students to explore future careers while completing their academy requirements. Students will be required to complete communication skills classes, mentoring, job shadowing and an internship. Students will also be required to complete 15 hours of Service Learning each year.

*Courses may be taken during any year
**Specialized Communication Skills classes

- Some Academy courses may be subject to modification in content or course title, as necessary.
- Academy classes which are not described in the DBHS Course Description Booklet are explained in the Pathways Communication Academy Course Description booklet.

PATHWAYS COMMUNICATIONS ACADEMY ELECTIVES

****The following classes are only available to students enrolled in the Pathways Communications Academy.**

ACADEMY LEADERSHIP GRADES 10 – 12 5 CREDITS SEMESTER

The students who enroll in the Academy's Leadership class become its student council and representatives responsible for extending the academy experience beyond the classroom walls. Students are responsible for planning and implementing Academy extra-curricular activities. Students also conduct student-council meetings using parliamentary procedure, manage Leadership finances, conduct fundraisers, and participate in service-learning. Repeatable for credit. (Applied Arts)

GRAPHIC ARTS/MULTIMEDIA GRADES 9 – 12 10 CREDITS YEAR

In this program, students receive a foundation of up-to-date classroom instruction using today's latest software and state-of-the-art PC computers. Using Adobe Photoshop, Illustrator, InDesign, Adobe Go Live, QuarkXPress, PowerPoint and Final Cut Pro digital editing students will demonstrate the use of the programs for photographic image rendering and manipulation, drawing and coloring, ad design, graphic and text placement, page layout, and Public Service Announcements. (UC "F" requirement)

CAREER COMMUNICATIONS

GRADE 11

10 CREDITS

SEMESTER

PREREQUISITE: Must be enrolled in Pathways Communications Academy

This course will prepare students to explore the world of work by incorporating two unique aspects of business. Using several computer applications such as MS Word, Excel, PowerPoint, Publisher, and Photoshop, students learn to develop their desktop publishing skills and creativity. Students also participate in a six-week, cross-age tutoring program during this course. They tutor elementary students in reading, math and writing skills. (Applied Arts)

BUSINESS EDUCATION

GRADE 12

5 CREDITS

SEMESTER

PREREQUISITE: Must be enrolled in Pathways Communications Academy

This is a course where students are regularly asked, "what do you want to do with your life? Students are engaged in Career Development and Senior Portfolios in preparation for postsecondary instruction. Students follow *The Roadtrip Nation Experience Journal and Projects*, which is a workbook and online set of lessons, activities and videos. In addition students develop a Senior Portfolio accumulating their work related to career development (resumes, cover letters, letters of reference, examples of their high school work, aptitudes and more).

SPEECH

GRADE 10

10 CREDITS

SEMESTER

PREREQUISITE: Must be enrolled in the Pathways Communications Academy

Speech is a course where students will be exposed to and practice many different forms of public communication from: persuasive, informative, storytelling, extemporaneous, basic news casting/broadcasting, and debate. The class will focus on not only presentation structure but also on voice and nonverbal communication. Students will present in large groups, small groups, and create videos. (Applied Arts)

HEALTH AND HUMANITIES

SOCIAL SCIENCE

HEALTH

GRADES 9-12

5 CREDITS

SEMESTER

Health is a course of two focal points: (1) Character Education (6 Weeks) and (2) Physical Health Education (12 weeks). The Character Education segment is designed to address the mental, emotional and social aspects of health education, providing students with instruction on topics such as academic integrity, and planning for long-term and short-term academic success. The Physical Health Education segment is designed to provide basic information and understanding in the health areas of: first aid, cancer and heart disease, physical fitness, diet, AIDS, STD's, sex education, tobacco, alcohol, drugs and drug related concepts like addiction, treatment centers, suicide, and solutions (natural highs), such that students will make sound decisions in their life styles. This course meets the state requirements for narcotics, alcohol, and tobacco instruction. This semester course will be offered primarily to freshmen students but will also be available to students in other grade levels based on need. (This course fulfills District requirement for Graduation.)

LEADERSHIP

GRADES 9-12

5 CREDITS

SEMESTER

PREREQUISITE: Elected to student government or permission from Activities' Director.

A course for students involved in student body government and student affairs. Members become aware of school law, parliamentary procedure, school management and organization. Repeatable for credit. (Applied Arts)

MODERN WORLD HISTORY

GRADES 9-10

10 CREDITS

YEAR

In this course, students will explore the major issues and turning points that have shaped the modern world. The course will focus on the period from the rise of democratic ideas in Ancient Greece & Rome, throughout the late 18th century, and to the present day. Students will study the social, political, geographic and economic factors that have transformed governments, societies and

Revised as of March 19, 2015

cultures throughout the world. Students will study recent history, focusing on the development and expansion of the western world, and the growing interdependence of people and cultures throughout the modern world. The content of the courses will include: Rise of Democratic Ideas, Industrialization, Imperialism, Major Revolutions, WWI & WWII, The Cold War Era and the Contemporary World. (UC/CSU/NCAA)

MULTICULTURAL STUDIES

GRADES 9-12

5/10 CREDITS

SEMESTER/YEAR

Multicultural Studies is a semester-long class which will focus on an in-depth study of ethnic groups in the United States. There will be emphasis given to Native Americans, African Americans, Latino Americans, and other groups. Students will learn about the current state of America's ethnic groups as well as the social, economic, and political reasons that led them to immigrate to America. This class is a social science academic elective that will require students to actively participate in analytical thinking in order to understand social and cultural concepts. Repeatable for credit. (UC/CSU "G" Elective/NCAA)

EUROPEAN HISTORY AP (Advanced Placement)

GRADE 10

10 CREDITS

YEAR

PREREQUISITE: Grade of "A" in most recent History class (8th or 9th grade) AND Grade of "A" in English or "B" or higher in English I Honors, AND concurrent enrollment in English II Honors.

The AP European history course is designed to provide students with analytical, factual, and writing skills which relate to the development of Europe covering the period from the Renaissance through current day. Very intense reading and writing will be required in this year-long college preparatory class. This course leads to an optional Advanced Placement history test in May. College credit is possible if the test is passed. This course fulfills the World History requirement. (UC/CSU*/NCAA)

MODERN AMERICAN HISTORY

GRADE 11

10 CREDITS

YEAR

This class reviews the major points of American History beginning with the nation's origins and progressing to present day. The major emphasis of instruction for this course will range from the post Civil War period to contemporary times. Students will study the flood of immigration following the American Industrial Revolution of the late nineteenth century. Students will analyze the rise of American cities and the challenges that arise with urbanization. They will understand the Great Depression and the relevance of the New Deal and World War 2 in getting America back on its feet. Students will study the Cold War and understand its importance on the postwar policy. Students will look at the changing face of America in the 1960's and finish the year by studying contemporary issues in America. (UC/CSU/NCAA)

U.S. HISTORY AP (Advanced Placement)

GRADE 11

10 CREDITS

YEAR

PREREQUISITE: Grade of "A" in World History or "B" or higher in AP European History, AND grade of "A" in English II or "B" or higher in English II Honors.

This course provides students with analytical, factual, reading and writing skills relating to U.S. History. Topics include Colonization, the Revolutionary period, Federalism, the Jacksonian Era, Antebellum America, the Civil War and Reconstruction, the Gilded Age, Progressivism, Imperialism, World War One, the Roaring Twenties, the Great Depression and the New Deal, World War Two, the Cold War, the Turbulent Sixties, the Vietnam War, and the Seventies. Very intense reading and writing is required in this year-long college preparatory class. Students will write several traditional and document-based essays during the year, as well as investigate both primary and secondary historical sources. This course is designed to provide students with the skills to pass an optional Advanced Placement history test in May. A satisfactory score will result in the receiving of university or college credit toward graduation. (UC/CSU*/NCAA)

HISTORY SL

GRADE 11

5 CREDITS

SEMESTER

PREREQUISITE: This course is offered for students in the IB Programme based upon completion of tenth grade Modern World History with at least a B grade. Completion of Advanced Placement European History during the sophomore year is strongly recommended.

This is a one-year program of study that fulfills the group three requirements within the International Baccalaureate Diploma Programme as well as the California State Standards for U.S. History. Students taking this course will examine significant events in the early development of the United States. Twentieth century American History will be integrated with the study of contemporary world issues, focusing on Peacemaking and Peacekeeping in the early 20th century, the onset, events, and resolution of the Cold War, as well as the significant role war has played in the evolution of the modern world. The emphasis of this course will be on

the synthesis and application of interpretive historical thought, in-depth study of 20th century national, ethnic, and state identities, and the United States' role in the modern world. (UC/CSU*/NCAA)

HISTORY OF THE AMERICAS HL/2ND YEAR

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: Completion of History SL

This class is the second year of the two-year course that will meet International Baccalaureate Diploma Programme requirements for Higher Level History. The grade 12 year will focus on Mexican history for 6 weeks, and then the remainder of the year will focus on the study of contemporary world issues, focusing on Peacemaking and Peacekeeping in the early 20th century, the onset, events, and resolution of the Cold War, as well as the significant role war has played in the evolution of the modern world. Students will take their International Baccalaureate examinations at the end of the 12th grade year. The emphasis of this course will be on the synthesis and application of interpretive historical thought, in-depth study of 20th century national, ethnic, and state identities, and the United States' role in the modern world. Students will take their International Baccalaureate examinations at the end of the 12th grade year. (UC/CSU*/NCAA)

CIVICS

GRADE 12

5 CREDITS

SEMESTER

In this course students will pursue a deeper understanding of the institution of American Government. They compare systems of government in the world today and analyze the history and changing interpretations of the Constitution, the Bill of Rights, and the current state of legislative, executive, and judiciary branches of government. An emphasis is placed on analyzing the relationship among federal, state, and local governments, with particular attention paid to important historical documents such as the *Federalist Papers*. These standards represent the culmination of civic literacy as students prepare to vote, participate in community activities, and assume the responsibilities of citizenship. (UC/CSU/NCAA)

AMERICAN GOVERNMENT AP

GRADE 12

5 CREDITS

SEMESTER

PREREQUISITE: "C" or higher AP US History AND "B" or higher in 11th Grade English or "B" or higher in Modern American History.

A study of our government's constitution underpinnings, political beliefs, political parties, interest groups, policy process and protection of civil rights and civil liberties. This course is intended for qualified students who wish to complete studies in secondary school equivalent to a one-semester college introductory course in United States government (Political Science). This course will fulfill the civics graduation requirement. This course is designed to prepare the student to take the Advanced Placement Government exam. A satisfactory score will result in the receiving of university or college credit toward graduation. (UC/CSU*/NCAA)

ECONOMICS

GRADE 12

5 CREDITS

SEMESTER

This course will provide students with an understanding of economic principles and theories, including comparative economic systems, Micro economics and an introduction to the concepts of Macro economics. Students will gain awareness of the historical and contemporary development of U.S. economic policies, will understand the role of the individual within an economic structure and will be encouraged to recognize and interpret economic happenings in our society. (UC/CSU "G" Elective/NCAA)

ECONOMICS AP (Advanced Placement - Microeconomics)

GRADE 12

5 CREDITS

SEMESTER

PREREQUISITE: "B" or better in Modern American History or "C" or better in AP US History, AND "B" or higher in 11th Grade English, AND "B" or higher in Trigonometry/Math Analysis, or grade "B" or higher in Mathematical Analysis Honors.

The AP Economics course is designed to provide students with a rigorous introduction to the determinants which affect the basic model of demand and supply, abstract theories and models, algebraic and graphic tools, emphasizing certain market relationships at both Micro and Macroeconomics levels that interpret market structures. This course is intended for qualified students who wish to complete studies in secondary school equivalent to one-semester college introductory course in Economics. This course will fulfill the Economics graduation requirement. This course is designed to prepare the student to take the Advanced Placement Economics exam. A satisfactory score will result in the receiving of university or college credit toward graduation. (UC/CSU* "G" Elective/NCAA)

IB ITGS (Information Technology in a Global Society) SL

GRADES 11 – 12

10 CREDITS

YEAR

PREREQUISITE: Grade of “B” or better in IC3 or grade of “C” or better in Computer Systems

The information technology in a global society (ITGS) course is the study and evaluation of the impact of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts. Although ITGS shares methods of critical investigation and analysis with other social sciences, it also considers ethical questions found in the study of philosophy. Students come into contact with IT on a daily basis because it is so pervasive in the world in which we live. This widespread use of IT inevitably raises important questions about social and ethical issues that shape out society today. ITGS offers an opportunity for a systematic study of these issues, whose range is such that they fall outside the scope of any other single discipline. (UC/CSU “G” ELECTIVE*)

Asterisk (*): Qualifies for extra grade point UC/CSU
NCAA: Qualifies for NCAA Eligibility Center for student athletes.

PEER COUNSELING

GRADES 10 – 12

10 CREDITS

YEAR

PREREQUISITE: Application, interview and teacher or GLC recommendations.

This course trains motivated students in the fundamentals of peer counseling skills which include counseling ethics, interpersonal communication skills, stress and anger management, assertiveness training, strategies to deal with crisis and change, and other relevant teen issues. Students are required to proactively explore themselves and their relationships with others as a means to gain valuable insight into becoming an effective Peer Counselor.

PSYCHOLOGY AP (Advanced Placement)

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: “B” or higher (2nd Semester) in US. History or “C” or higher (2nd Semester) in AP US History AND “B” or higher (2nd Semester) in Biology or “C” or higher (2nd Semester) in AP Biology AND “B” or higher in English III or “C” or higher (2nd Semester) in English III Honors/AP English (Rhetoric). It is recommended that AP Statistics be taken concurrently.

Students should have received a grade of “B” or higher in Modern American History and a “B” or higher in their most recent full-year science course. Psychology is the scientific study of human behavior and mental activity. In this course, students will study human development, intelligence, personality, abnormal behavior, therapeutic intervention, and social psychology. This course is designed to prepare the student to take the Advanced Placement Psychology test. A satisfactory score will result in receiving university or college credit toward graduation. Credit is received in the standard A.P. format. (UC/CSU “G” Elective*/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU
NCAA: Qualifies for NCAA Eligibility Center for student athletes.

PHYSICAL EDUCATION

KINESIOLOGY I - INTRODUCTION TO PHYSICAL EDUCATION

GRADE 9

10 CREDITS

YEAR

PREREQUISITE: Ninth grade students not enrolled in athletics

This course is designed to introduce all ninth grade students to the Brahma physical education program. In accordance with Ed Code Section 33352(b), this course addresses the content areas of aquatics, rhythms/dance, and individual and dual activities. Instruction on the effects of physical activity on dynamic health and the mechanics of body movement is integrated throughout the school year. One day of classroom instruction per week in “Fitness for Life” is included. Students will also participate in physical fitness activities designed to prepare them for the *Fitnessgram* physical performance test. **Senate Bill 78 requires all 9th grade students to take the *Fitnessgram* physical performance test. This assessment examines 6 elements of physical fitness. Student who do not meet the fitness standards of any 5 of the 6 fitness areas are required, by law, to take physical education in grade 10 and in subsequent grades until they meet the standards for 5 of 6 areas.**

KINESIOLOGY II

GRADES 10-12

10 CREDITS

YEAR

This course is designed as a follow up to Kinesiology I. In accordance with Ed Code Section 33352(b), this course addresses the content areas of combatives, gymnastics and tumbling, and team activities, as well as the effects of physical activity upon dynamic

Revised as of March 19, 2015

health and mechanics of body movement. Students will also be introduced to the following consist seven sports: FLAG FOOTBALL: Fundamentals and terminology of football. Fundamentals that are stressed include passing, kicking, and pass receiving. Basic offensive and defensive strategies will be taught. SOCCER: The fundamental skills of soccer will be emphasized in this course, including dribbling, shooting, and goal tending. Offensive and defensive strategies will be covered in practice and game situations. SOFTBALL: Throwing, fielding, and batting skills will be emphasized in this course. Drills will be emphasized to promote skill instruction, with game situations used to introduce offensive and defensive strategies. SPEEDBALL: The fundamental skills of kicking, catching, and throwing the ball will be encouraged. BASKETBALL: This course will include instruction in the following basketball fundamentals: shooting, dribbling, and rebounding. Basic offensive and defensive team strategies will be taught along with the principles of good teamwork. VOLLEYBALL: This course in the fundamentals of volleyball will include the overhand serve, bumping, setting, and spiking techniques. Ball handling drills and skills will be a major part of this course. RACQUETBALL: Fundamentals including the serve, forehand, backhand, lob and dink will be taught. Doubles' and singles 'strategy will be taught. TENNIS: A course in the fundamentals of the sport including the serve, groundstrokes and footwork. Drills and techniques will be emphasized. Repeatable for credit.

STRENGTH TRAINING

GRADES 10-12

5/10 CREDITS

SEMESTER/YEAR

PREREQUISITE: Grade of A/B in Physical Education class or teacher approval

The course is centered upon the improvement of the six fundamental ability factors of human beings: 1. strength 2. skills 3. flexibility 4. cardiovascular 5. muscle growth and 6. Neuromuscular improvement. The course is designed for the motivated individual who is willing to work very hard. Requirements may include written reports and exams as well as physical performance expectations. Repeatable for credit.

TOTAL BODY FITNESS AND CONDITIONING

GRADES 10-12

5/10 CREDITS

SEMESTER/YEAR

This course is designed for students who are interested in participating in physical activities on a regular basis. Students will develop, improve, maintain physical fitness; learn and practice lifetime activities; and acquire the knowledge that physical exercise is essential for healthful lifelong living. Activities include step aerobics, power walking, circuit training, yoga, nutrition and other aerobic and anaerobic activities. Requirements include a fitness notebook. Repeatable for credit.

ATHLETICS

GRADES 9-12

5 CREDITS

SEMESTER

PREREQUISITE: Approval of Coach

This course is designed for students who participate in interscholastic sports. Students will be required to practice and compete beyond the normal school day. Only students who are on the following teams are eligible: FALL SEMESTER SPORTS . . . football, volleyball, cross country, basketball, soccer, wrestling and girl's tennis. SPRING SEMESTER SPORTS. . . baseball, golf, softball, track, badminton and boy's tennis. Repeatable for credit.

FOREIGN LANGUAGE

First year language study at Diamond Bar High School is taught in the target language 80% of the time. Second year language courses are taught in the target language 90% of the time. Third and fourth year courses are taught nearly 100% of the time in the target language.

CHINESE I

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Grade of C or higher in English.

Learn Pinyin phonetic system. Learn to speak and understand the basics of the Chinese language: date, numbers, color, time, seasons, weather, rooms, shopping, transportation, food, and activities. Learn to write simple sentences and paragraphs. Learn Chinese philosophy and culture. Participate in skits/group/pair activities in the target language. Course emphasis is on traditional Chinese. Materials are presented in both traditional and simplified Chinese. (UC/CSU/NCAA)

**CHINESE II
GRADES 9-12
10 CREDITS**

YEAR

PREREQUISITE: Successful completion of Chinese I with a grade of “C” or higher.

As a continuation of Chinese I, this course continues vocabulary acquisition. A strong emphasis is placed on writing and the oral aspects of the language, particularly the ability to communicate meaningfully in the target language. Course emphasis is on traditional Chinese. Materials are presented in both traditional and simplified Chinese. (UC/CSU/NCAA)

**CHINESE II HONORS
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Chinese I with a grade of “A”.

In this advanced course you will continue to expand your listening, speaking, reading, and writing abilities in Chinese. You will develop your ability to use the language in real-life situations as well as develop a greater understanding of Chinese culture. This course is the equivalent of 1 1/2 years of non-Honors Chinese. Course emphasis is on traditional Chinese. Materials are presented in both traditional and simplified Chinese. (UC/CSU/NCAA)

**CHINESE III
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Chinese II with a grade of “C” or higher.

As a continuation of Chinese II, this course continues vocabulary acquisition and writing development with a strong emphasis on the oral aspect of the language. Content reading and basic creative writing are also important components of this course. Simplified and traditional Chinese are both used. (UC/CSU/NCAA)

**CHINESE III HONORS
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Chinese II with a grade of “A” or Chinese II Honors with a grade of “B” or higher.

As a continuation of Chinese II Honors, this course continues to expand your listening, speaking, reading, and writing abilities in Chinese. You will expand your ability to use the language in real-life situations as well as develop a better understanding of Chinese culture through literature and creative writing opportunities. This course is the first in a two-year cycle to prepare you for the International Baccalaureate Standard Level exam in Chinese. Simplified and traditional Chinese are both used. (UC/CSU*/NCAA)

**CHINESE IV
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: Successful Completion of Chinese III with a grade of “C” or higher.

This course is designed to expand the students’ speaking, listening, writing and reading skills through Chinese literature. Simplified and traditional Chinese are both used. (UC/CSU/NCAA)

**CHINESE IV LANGUAGE AND CULTURE AP
GRADES 9 - 12**

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Chinese III Honors with a grade of “B” or higher.

This challenging course will be conducted entirely in Chinese to continue developing advanced skills in reading literature and writing in Chinese. It will also prepare students for the Standard Level or Higher Level IB exam. There will also be an in-depth emphasis on the Chinese literature. (UC/CSU*/NCAA)

**MANDARIN IB SL
GRADES 11 – 12**

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Chinese III Honors with a grade of “B” or better. (UC/CSU*/NCAA)

MANDARIN IB HL1**GRADE 11****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of Chinese III Honors with a grade of “B” or better.
(UC/CSU*/NCAA)**MANDARIN IB HL2****GRADE 12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of Mandarin IB HL1 with a grade of “B” or better.
This is the sequence of Mandarin classes for the International Baccalaureate program.
(UC/CSU*/NCAA)**FRENCH I****GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Grade of “C” or higher in English

Learn to speak and understand the basics of the French language: dates, numbers, color, time, seasons, weather, shopping, transportation, food, and activities. Learn to write, read, understand and speak in addition to French culture. Participate in skits/group/pair activities in the target language. (UC/CSU/NCAA)

FRENCH II**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French I with a grade of “C” or higher.

This course is for students who have finished the first year of French and want to continue to improve their listening, speaking, and writing abilities. Students will have many opportunities to use the language in real-life situations and to expand their cultural knowledge. Student progress will be assessed in oral and written competency. (UC/CSU/NCAA)

FRENCH II HONORS**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French I with a grade of “A”.

In this advanced course you will continue to expand your listening, speaking, reading, and writing abilities in French. You will develop your ability to use the language in real-life situations as well as develop a greater understanding of French culture. This course is the equivalent of 1 1/2 years of non-Honors French. (UC/CSU/NCAA)

FRENCH III**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French II with a grade of “C” or higher.

In this course, the language of French will begin to “come together” for you. You will be able to speak more freely in French, and most of the class will be conducted entirely in French. In addition, you will be reading and writing with more skill. The entire French speaking world will be the object of your study and for the first time you will be able to attend French immersion camp. (UC/CSU/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU
NCAA: Qualifies for NCAA Eligibility Center for student athletes.

FRENCH III HONORS**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French II with a grade of “A” or higher or French II Honors with a grade of “B” or higher.

This course is designed for those students who enjoy being challenged. This course will prepare you for the Advanced Placement French IV-V class. In addition to the conversation, reading and writing offered in the regular French III class, there will be emphasis on the perfection of these skills and an introduction to French literature. (UC/CSU*/NCAA)

FRENCH IV (Conversational)**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French III with a grade of “C” or higher.

This course is designed for students who do not intend to take the AP test but want to continue their study of French in a largely conversational format. Debates, skits, videos and cultural activities are the focus of student activities in addition to improving vocabulary and fluency! (UC/CSU/NCAA)

FRENCH LANGUAGE AP**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French III Honors with a grade of “B” or higher.

Intended for students who plan to take the AP test in French Language or the IB Standard Level Exam or Higher Level, this course helps students hone writing skills, analyze literary works and develop cultural sensitivity. Be prepared to be challenged and to grow, both intellectually and linguistically. (UC/CSU*/NCAA)

FRENCH IB SL**GRADES 11 – 12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French III Honors with a grade of “B” or better.
(UC/CSU*/NCAA)**FRENCH IB HL1****GRADE 11****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French III Honors with a grade of “B” or better.
(UC/CSU*/NCAA)**FRENCH IB HL2****GRADE 12****10 CREDITS** **YEAR****PREREQUISITE:** Successful completion of French IB HL1 with a grade of “B” or better.

This is the sequence of French classes for the International Baccalaureate program. (UC/CSU*/NCAA)

KOREAN I**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Grade of “C” or higher in previous English course.

Students will learn to speak and understand the basics of the Korean language. Students will also learn about Korean culture, food and customs. (UC/CSU/NCAA)

KOREAN II**GRADES 9-12****10 CREDITS** **YEAR****PREREQUISITE:** Grade of “C” or higher in Korean I.

This course is a continuation of Korean I. Students will continue to augment their vocabulary and expand reading and writing skills. A strong emphasis will be placed on developing successful communication skills using the target language. (UC/CSU/NCAA)

KOREAN II HONORS**GRADES 9 – 12****10 CREDITS** **YEAR****PREREQUISITE:** Grade of “A” in Korean I.

In this advanced course students will continue to expand their listening, speaking, reading and writing abilities in Korean. Students will develop the ability to use the language in real life situations as well as develop a greater understanding of Korean culture. This course is the equivalent of 1 ½ years of non-Honors Korean. (UC/CSU/NCAA)

**KOREAN III
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: Grade “C” or higher in Korean II.

The third year of Korean language study offers students the opportunity to improve speaking, listening, writing and reading skills beyond the basic level. The class is conducted entirely in Korean. Students will have the opportunity to participate in many language-based activities and projects. (UC/CSU/NCAA)

KOREAN III HONORS

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Grade of “A” in Korean II, or grade of “B” or higher in Korean II Honors.

This challenging course will be conducted almost entirely in Korean. Coursework is designed to develop students’ ability to speak, listen, read and write in Korean. Students will read authentic documents and short stories in Korean. Students will write literary compositions in Korean. (UC/CSU*/NCAA)

KOREAN IV

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Grade “C” or higher in Korean III.

This course is designed to expand the students’ speaking, listening, writing, and reading skills through literature. The emphasis is on the study of Korean literature and history. Course will be conducted entirely in target language. (UC/CSU/NCAA)

KOREAN IB SL

GRADES 11 – 12

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Korean III Honors with a grade of “B” or better.
(UC/CSU*/NCAA)

KOREAN IB HL1

GRADE 11

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Korean III Honors with a grade of “B” or better.
(UC/CSU*/NCAA)

KOREAN IB HL2

GRADE 12

10 CREDITS

YEAR

PREREQUISITE: Successful completion of Korean IV Honors or Korean IB HL1 with a grade of “B” or better.

This is the sequence of Korean classes for the International Baccalaureate program. (UC/CSU*/NCAA)

SPANISH I

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Grade of “C” or higher in most recent English class and/or teacher permission.

This introductory Spanish language course focuses on developing skills in speaking, listening, understanding and writing in the target language. Students will communicate with others in everyday situations and be exposed to the culture and heritage of Spanish-speaking countries. Student progress will be assessed in oral and written competency. Regular homework and active participation are mandatory. (UC/CSU/NCAA)

SPANISH II

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: Grade of “C” or higher in Spanish I.

This course is for students who have finished the first year of Spanish and want to continue to improve their listening, speaking, and writing abilities. Students will have many opportunities to use the language in real-life situations and to expand their cultural knowledge. Student progress will be assessed in oral and written competency. Regular homework and active participation are mandatory. (UC/CSU/NCAA)

SPANISH II HONORS**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Course grade of "A" in Spanish I.

In this advanced course students will continue to expand listening, speaking, reading, and writing skills. Student progress will be assessed in oral and written competency. Regular homework and active participation are mandatory. Students will develop their ability to use Spanish in real-life situations as they gain in a greater understanding of various Hispanic cultures. Students will receive intensive instruction in Spanish grammar and usage. This course is the equivalent of 1 ½ years of non-Honors Spanish. Completion of summer work is mandatory. (UC/CSU/NCAA)

SPANISH III**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of Spanish II with a grade of "C" or higher.

The third year of Spanish offers students the opportunity to improve their skills in speaking, reading, and writing. Students will read short stories in the target language and will speak entirely in the target language. (UC/CSU/NCAA)

SPANISH III HONORS**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Grade of "B" or higher in Spanish II Honors, or grade of "A-" or higher in Spanish II.

This course is designed to prepare students for the Advanced Placement or IB course. Prior successful completion of Spanish II Honors is strongly recommended. The class will be conducted almost entirely in Spanish as students continue to develop advanced skills in listening and speaking, with an emphasis on reading and writing. This course is the equivalent of 1 ½ years of non-Honors Spanish. Completion of summer work is mandatory. (UC/CSU*/NCAA)

SPANISH IV**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Grade of "C" or higher in Spanish III and/or teacher permission.

This course is designed for students who want to increase their speaking and writing abilities in Spanish. This is an activities-based course where students will speak entirely in Spanish and explore a variety of Spanish cultures. Instruction is conducted entirely in Spanish. (UC/CSU/NCAA)

SPANISH LANGUAGE AP**GRADES 10-12****10 CREDITS****YEAR****PREREQUISITE:** Course grade of "B" or higher in Spanish III Honors.

This college level course is the second part of the Spanish IV AP program, with breadth and depth of material designed to prepare students to pass the Advanced Placement Spanish Language Exam or the IB Standard Level or Higher Level Exam. Students will also gain a deeper understanding of Spanish culture and explore Spanish and Latin American Literature. (UC/CSU*/NCAA)

SPANISH LITERATURE AP**GRADES 11-12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of Spanish IV AP with a grade of "B" or higher.

When students reach this level, they solidify the basic skills and concepts they have already acquired. The content of the course, conducted entirely in Spanish, will focus on social issues, current events, cultural topics, and literary themes. Students will use the Spanish language as the means of expressing their opinions and ideas. (UC/CSU*/NCAA)

SPANISH IB SL**GRADES 11 – 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of Spanish III Honors with a grade of "B" or better.
(UC/CSU*/NCAA)**SPANISH IB HL1****GRADE 11****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of Spanish III Honors with a grade of "B" or better. (UC/CSU*/NCAA)

SPANISH IB HL2**GRADE 12****10 CREDITS****YEAR****PREREQUISITE:** Successful completion of Spanish IB HL1 with a grade of "B" or better.

This is the sequence of Spanish classes for the International Baccalaureate program. (UC/CSU*/NCAA)

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**MATH****PRE-ALGEBRA****GRADE 9-12****10 CREDITS****YEAR****PREREQUISITE:** Case Carrier/IEP

A course designed to strengthen the fundamental arithmetic skills of the student and to help the student understand how to apply them as a consumer in the world today. Successful completion of the course should provide the student with the background necessary to continue on in the mathematics college preparatory curriculum.

APPLIED ALGEBRA - ROP**GRADES 11 – 12****10 CREDITS****YEAR****PREREQUISITE:** Placement based upon recommendation.

Applied Algebra is an ROP course that provides a basic approach to the fundamentals of Algebra I. The text used reviews content standards for Grade 6 through Algebra I.

ALGEBRA A**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** "C" or better in Pre-Algebra or placement based on exit criteria in middle school.

This course is designed for those students requiring some strengthening of their fundamental arithmetic skills and a slower pace in acquiring a solid foundation in Algebra. Together, Algebra A and Algebra B will be accepted by Diamond Bar High School and colleges for one year of Algebra. (UC/CSU/NCAA)

ALGEBRA B**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** "C" or better in Algebra A

This course is the second year of the two year Algebra I sequence as described in Algebra A, above. The student who has successfully completed one semester of Algebra I and needs a slower pace for the second semester will find this class fills that need. Together, Algebra A and Algebra B will be accepted by Diamond Bar High School and colleges for one year of Algebra. (UC/CSU/NCAA)

BUSINESS MATH**GRADES 10-12****10 CREDITS****YEAR**

This course introduces students to the world of finance using practical math skills and personal applications. Utilizing technology and a variety of projects, students learn about managing money, spending wisely, making money grow, and the basics of business management in a global economy. (Applied Arts/Math)

ALGEBRA I**GRADES 9-12****10 CREDITS****YEAR****PREREQUISITE:** Placement based on exit criteria in middle school

In this class the student will receive a foundation in fundamental operations with real numbers. The student will study topics including solutions of equations and inequalities, graphing linear functions, working with functional notation, operations with polynomials, discrete math, and verbal problem solving. (UC/CSU/NCAA)

**GEOMETRY
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: "C" or better in Algebra I or Algebra B, or placement based on exit criteria in middle school

This course provides an extension of the concept of a formal proof, develops logical thinking, covers the foundations of Euclidean Geometry, and will develop coordinate geometry including the in-depth study of lines, discrete math, and work with conic sections. (UC/CSU/NCAA)

**ALGEBRA II
GRADES 9-12**

10 CREDITS

YEAR

PREREQUISITE: "C" or better in Geometry

This course represents a deeper investigation and extension of the topics of Algebra I and Geometry. Topics that will be covered include operations with rational polynomial expressions, three-dimensional linear systems, determinants, quadratic theory, study of the complex number system, discrete math, and basic trigonometry. (UC/CSU/NCAA)

ALGEBRA II/TRIGONOMETRY HONORS

GRADES 9-10

10 CREDITS

YEAR

PREREQUISITE: Grade of "B" or better in second semester of Algebra I and "B" or better in second semester of Geometry. Because this class is so much more difficult than a regularly-paced math class, students without "A's" in Algebra or Geometry are encouraged to take Algebra II.

This course will provide a rigorous foundation in operations with rational polynomial functions, function analysis, 3-dimensional linear systems, determinants, quadratic theory, operations in the complex number system, discrete math, and an intensive study of trigonometry. This is a fast-paced course that covers three semesters of high school mathematics in one year. (UC/CSU/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU NCAA: Qualifies for NCAA Eligibility Center for student athletes.

TRIGONOMETRY/SUMMATIVE MATH

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: "C" or better in Algebra II

This course is designed to address the standards from the Trigonometry and Mathematical Analysis portions of the California State standards at a more moderate pace than the TRIGONOMETRY/MATH ANALYSIS course. A student who successfully completes this course with a "B" or higher will be prepared to enter a college calculus class. The first semester will begin with a review of major concepts from Algebra 2, followed by the study of trigonometry and its applications, including the foundations of polar coordinates and discrete math. The second semester included the study of vectors and complex numbers, functional analysis, logarithms, conic sections, and limit problems like the definition of a derivative. This course is not a prerequisite for any further mathematics courses at DBHS. (UC/CSU/NCAA)

TRIGONOMETRY/MATH ANALYSIS

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: "C" or better in Algebra II

A course designed for the student who will pursue studies in the field of mathematics, engineering, economics, accounting, or the sciences. The student who successfully completes this course will be fully prepared to enter a college calculus class. The first semester will rigorously cover trigonometry and its applications, as well as the foundations of polar coordinates, discrete math, vectors and complex numbers. The second semester includes introductions to functional analysis, logarithms, conic sections, derivatives and integrals and their physical applications, higher degree equations, and the limit. (UC/CSU/NCAA)

MATHEMATICAL ANALYSIS/CALCULUS HONORS

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: Grade of "B" or better in both semesters of Algebra II/Trigonometry Honors

This course will begin by covering trigonometry extensively. All topics of Calculus A and Calculus B will then be covered. Students will be fully prepared to take the Advanced Placement Calculus AB examination in early May. Students will then learn polar form of rectangular and complex numbers, vector applications, DeMoivre's Theorem, and Mathematical Induction. (UC/CSU*/NCAA)

CALCULUS I (AB) AP**GRADES 10-12****10 CREDITS****YEAR**

PREREQUISITE: "C" or better in Trigonometry/Math Analysis, or grade of "C" or better in Mathematical Analysis Honors or teacher recommendation.

An interesting and rigorous course of the calculus and analytic geometry equivalent to the first two college courses. The course is designed to prepare the student to pass the Advanced Placement Calculus AP examination. A satisfactory score on the test may result in university or college credit towards graduation in mathematics. (UC/CSU*/NCAA)

CALCULUS II (BC) AP (MATH IB HL1)**GRADE 11-12****10 CREDITS****YEAR**

PREREQUISITE: "C" or better in Calculus AP I, or grade of "C" or better in Mathematical Analysis Honors or teacher recommendation.

An interesting, rigorous course of calculus to follow the first year of Advanced Placement Calculus. This course is designed to prepare the student to pass the Advanced Placement Calculus BC examination. A satisfactory score on this test may result in the university or college credit towards graduation in mathematics. It will cover a small review and the topics of infinite sequences and series, advanced integration techniques and applications, differential equations, and vector analysis. (UC/CSU*/NCAA)

STATISTICS AP (Advanced Placement)**GRADES 11 - 12****10 CREDITS****YEAR**

PREREQUISITE: "B" or better in Algebra II or "C" or better in Algebra II/Trigonometry Honors 2nd semester or a grade of "B" or better in Trigonometry/Summative Math.

This course is equivalent to an introductory non-calculus based, college-level course typically taught in one semester. The 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: exploratory analysis of data, planning a study, anticipating patterns, and statistical inference. The course is designed to prepare the student to pass the AP Statistics Exam given by the College Board. A satisfactory score may result in university credit. A graphing calculator with statistics capabilities is required. (UC/CSU*/NCAA)

MATHEMATICS HL/2ND YEAR**GRADE 12****10 CREDITS****YEAR**

PREREQUISITE: "B" or better in IB Higher Level Math 1 or AP Calculus 2 (BC)

This is an honors course for students who have taken IB Higher Level Math 1 or AP Calculus 2 (BC) with a good background in mathematics who are competent in a range of analytical and technical skills. It is the second year of a two-year course to prepare students for the optional IB Math HL exam. In this course, as in all mathematics courses, there are clear differences in notation and emphasis that appear across various cultures, and the placement of discoveries in mathematics within certain cultures or periods of history is nontrivial. The content of the course includes higher levels of algebra, functions, trigonometry, matrices, 3D vectors, statistics and probability, calculus, infinite series, and differential equations. Mathematics is a unifying subject that places students within a global society. This course is designed with this idea in mind. (UC/CSU*/NCAA)

THEORY OF KNOWLEDGE**GRADE 12****10 CREDITS****YEAR**

PREREQUISITES: Students must be seniors in good standing in the International Baccalaureate Diploma Program.

The Theory of Knowledge course is offered to senior students in the International Baccalaureate Diploma Program. With an interdisciplinary approach, the Theory of Knowledge will challenge the students to address the question, "How do I, or how do we, know that a given assertion is true or a given judgment is well-grounded." Throughout the course the students will focus on the way in which cultural paradigms hinder and/or assist in the quest for the truth. The format of the course is based on inquiry and discussion. Participation of students in all classroom activities is vital for their success in this course. Students will be required to contribute as individuals and as part of cooperative groups. (UC/CSU* "G" Elective/NCAA)

SCIENCE

INTEGRATED LABORATORY SCIENCE

GRADES 10-12

10 CREDITS

YEAR

May not be taken for credit if student has passed Chemistry or Physics

This course will integrate Biology, Chemistry, Physics and Earth Science in an exciting, stimulating and challenging environment. The course will stress laboratory procedures and the solution of problems. Successful completion of the course will prepare students with the foundations necessary to continue in the advanced science courses. (UC/CSU "G" Elective/NCAA)

MARINE SCIENCE

GRADES 10 – 12

5 CREDITS

SEMESTER (1st Semester Only)

PREREQUISITE: Biology or Integrated Laboratory Science

This course will explore the physical and biological aspects of our oceans. Topics will include diversity of sea life, sea floor geography, wave patterns and human resources from the sea. This class will help students develop an interest and understanding of the world below while helping them fulfill their science graduation requirements. (UC/CSU "G" Elective/NCAA)

ENVIRONMENTAL INTEGRATED LAB SCIENCE

GRADES 10-12

5 CREDITS

SEMESTER (2nd Semester Only)

PREREQUISITE: Biology or Integrated Laboratory Science

This course will explore the earth, life, and physical science aspects of the earth's biosphere. Topics will include students of biomes, problems impacting the environment, recycling and population students. This class will give students a firsthand account of the factors that affect our environment. It will satisfy the graduation requirement. (UC/CSU "G" Elective/NCAA)

ENVIRONMENTAL SCIENCE AP

GRADES 10-12

10 CREDITS

YEAR

PREREQUISITE: Completion of Biology with a grade of "B" or better (2nd Semester) and completion of Chemistry with a grade of "B" or better (2nd Semester) and enrolled in Algebra II or have already completed Algebra II, or grade of "C" or better in Biology Honors (2nd Semester), and grade of "C" or better in Chemistry Honors (2nd Semester)

The course is designed to be the equivalent of a college course in environmental science. It is intended to enable students to undertake an advanced study of topics in environmental science. It is a rigorous science course that stresses scientific principles and analysis. The course includes a laboratory component. The course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both natural and human-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them. (UC/CSU*/NCAA)

BIOLOGY

GRADES 9-12

10 CREDITS

YEAR

PREREQUISITE: "B" or better in Integrated Laboratory Science or "C" or better in Algebra I or Algebra B (2nd Semester)

This course is college preparatory with students studying both the principles and concepts of biology. Students will learn the laboratory skills and techniques, coupled with problem-solving necessary for success in college. The course will include lecture, discovery, and many "hands on" laboratory experiences. (UC/CSU/NCAA)

BIOLOGY HONORS

GRADES 9-10

10 CREDITS

YEAR

PREREQUISITE: Entrance into the International Baccalaureate Program or an "A" in Integrated Laboratory Science second semester or a "B" or better in the second semester of Algebra I

This course will provide a rigorous foundation in the principles and concepts of biology, develop the laboratory concepts skills necessary in higher sciences, provide problem-solving opportunities, encourage students to think independently and encourage student discovery. This course will be necessary for any student pursuing the International Baccalaureate diploma. (UC/CSU/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU
NCAA: Qualifies for NCAA Eligibility Center for student athletes.

BIOLOGY AP (Advanced Placement)

GRADES 10-12

10 CREDITS **YEAR**

PREREQUISITE: Completion of Biology with a grade of “B” or better (2nd Semester) and completion of Chemistry with a grade of “B” or better (2nd Semester) and enrolled in Algebra II or have successfully completed Algebra II, or grade of “C” or better in Biology Honors (2nd Semester), and grade of “C” or better in Chemistry Honors (2nd Semester)

This class will cover the principles and concepts of biology in a far deeper and more thorough manner than that of the regular biology course, with this course being equivalent to a college biology course for biology majors. The course is designed to prepare the student to pass the Advanced Placement Biology Test. A satisfactory score on the test may result in university or college credit toward graduation in biology. (UC/CSU*/NCAA)

BIOLOGY HL/1ST YEAR

GRADE 11

10 CREDITS **YEAR**

PREREQUISITE: Grade of “B” or better in Chemistry Honors (*2nd Semester*)

Students completing this course will have gained a body of knowledge and techniques common to biological science in general, and biological research in particular. They will be able to apply knowledge and techniques learned to new problem-solving situations, including ethical issues in science and international and community issues such as impact of environmental problems at different levels. The two major underlying and unifying themes of the course are evolution and an individual’s responsibility to society. Students will be expected to keep portfolios of their work. (UC/CSU/NCAA)

BIOLOGY HL/2ND YEAR

GRADE 12

10 CREDITS **YEAR**

PREREQUISITE: Grade of “C” or better in IB Higher Level Biology I

HL Biology is a two-year course taught independently from any other biology class. The two major underlying and unifying themes are evolution and an individual’s responsibility to society. Students will be expected to keep portfolios of their work. Students completing this course will have gained a body of knowledge and techniques common to biological science in general and biological research in particular. They will be able to apply knowledge and techniques learned to new problem-solving situations, including ethical issues in science and international and community issues such as impact of environmental problems at different levels. (UC/CSU*/NCAA)

CHEMISTRY

GRADES 10-12

10 CREDITS **YEAR**

PREREQUISITE: “C” or better in Biology and “C” or better in Geometry.

This course is college preparatory and will involve the student in learning the knowledge of the principles and concepts which govern matter and energy in the universe. The student will learn the laboratory and communication skills necessary at the college level. This course will focus on the principles of chemistry, including investigational techniques, graphical analysis, atomic theory, stoichiometry, bonding, periodicity, technology, and individual responsibility to society. The course will include lecture, discovery and many “hands on” laboratory experiences. (UC/CSU/NCAA)

CHEMISTRY HONORS

GRADES 10-11

10 CREDITS **YEAR**

PREREQUISITE: Completion of Biology Honors with “B” or better or Biology with an “A”

This course will be a more rigorous and advanced version of the standard chemistry course. This course is intended for students who have successfully completed Biology Honors. It will cover additional topics necessary to prepare students for success in IB science courses. This course will focus on the principles of chemistry, including investigational techniques, graphical analysis, atomic theory, stoichiometry, bonding, periodicity, technology, and individual responsibility to society. In addition, this course will integrate the concepts in physics and geological science that are important to students taking IB courses in these topics. This course will be necessary for any student pursuing the International Baccalaureate diploma. (UC/CSU/NCAA)

CHEMISTRY AP (Advanced Placement)**GRADES 10-12****10 CREDITS****YEAR**

PREREQUISITE: Completion of Biology with a grade “B” or better (2nd Semester) and completion of Chemistry with a grade “B” or better (2nd Semester) and enrolled in Algebra II or successful completion of Algebra II, or grade of “C” or better in Biology Honors (2nd Semester), and grade of “C” or better in Chemistry Honors (2nd Semester)

This is a college level course covering the principles and concepts of Chemistry more thoroughly than that of the regular high school chemistry course. The laboratories and material covered are equivalent to a first year college chemistry course and will prepare the students to take the AP Chemistry exam. Successful completion of the exam may result in college credit. (UC/CSU/NCAA)

CHEMISTRY IB SL**GRADES 11-12****10 CREDITS****YEAR**

PREREQUISITE: Grade of “B” or better in Chemistry Honors (*2nd Semester*)

This course will allow students to understand the processes of the world around them from a microscopic to a macroscopic/atomic perspective. Chemistry is an experimental science and students will be expected to demonstrate the body of knowledge that they have obtained through practical work. Students will be expected to analyze data, evaluate explanations and produce generalizations of phenomena in this field. Students will be assessed both internally, through periodic examinations, practical work, investigations, and the submission of an IB Group 4 Project, and externally through the IB Chemistry SL examination. (UC/CSU/NCAA)

CHEMISTRY IB HL 1**GRADES 11****10 CREDITS****YEAR**

PREREQUISITE: Grade of “B” or better in Chemistry Honors (*2nd Semester*)

The first year of a two-year course that delves deeper into chemistry. It will allow students to understand the processes of the world around them from a microscopic to a macroscopic/atomic perspective. Chemistry is an experimental science and students will be expected to demonstrate the body of knowledge that they have obtained through practical work. Students will be expected to analyze data, evaluate explanations and produce generalizations of phenomena in this field. Students will be assessed both internally, through periodic examinations, practical work, investigations, and the submission of an IB Group 4 Project, and externally through the IB Chemistry HL examination. (UC/CSU/NCAA)

CHEMISTRY IB HL 2**GRADES 12****10 CREDITS****YEAR**

PREREQUISITE: Grade of “C” or better in Chemistry IB HL 1 (*2nd Semester*)

The second year of a two-year course that delves deeper into chemistry. It will allow students to understand the processes of the world around them from a microscopic to a macroscopic/atomic perspective. Chemistry is an experimental science and students will be expected to demonstrate the body of knowledge that they have obtained through practical work. Students will be expected to analyze data, evaluate explanations and produce generalizations of phenomena in this field. Students will be assessed both internally, through periodic examinations, practical work, investigations, and the submission of an IB Group 4 Project, and externally through the IB Chemistry HL examination. (UC/CSU/NCAA)

PHYSICS**GRADE 12****10 CREDITS****YEAR**

PREREQUISITE: “C” or better in Chemistry and “C” or better in Algebra II and concurrent enrollment in Trigonometry or instructor’s permission

This course will introduce the student to material covered in first year college physics. Topics will include vector analysis and equilibrium; Newton’s laws of linear motion; friction work, and energy momentum; wave phenomena such as sound and light; static and current electricity including circuits, magnetism, motors and generators. Additionally, students will be introduced to problem formulation and laboratory analysis techniques necessary to succeed at the collegiate level. A “hands-on” style will be emphasized in lab and classroom including design and science fair projects that will allow students some control of the direction of their own study. This course is recommended for student’s grade 12 who are not yet ready for a rigorous “A.P. style” treatment of the material. (UC/CSU/NCAA)

AP PHYSICS 1 (Advanced Placement)**GRADES 10-12****10 CREDITS** **YEAR**

PREREQUISITE: Completion of Biology with a grade “B” or better (2nd Semester) and completion of Chemistry with a grade of “B” or better or grade of “C” or better in Biology Honors (2nd Semester), and grade of “C” or better in Chemistry Honors (2nd Semester) and enrolled in Trigonometry/Mathematical Analysis or higher mathematics

This course will take students through material covered in the first year college physics and prepare them to take the AP Physics 1 examination. Topics would include vector analysis and equilibrium; Newton’s laws of linear motion; work, power, and simple machines; wave phenomena such as sound and water; static and current electricity including basic circuits. Additionally, students will be introduced to problem formulation and laboratory analysis techniques necessary to succeed at the collegiate level. A “hands-on” style will be emphasized in lab. Recommended – Successful completion of Physics. (UC/CSU*NCAA)

AP PHYSICS 2 (Advanced Placement)**GRADES 10-12****10 CREDITS** **YEAR**

PREREQUISITE: Completion of AP Physics 1 with a grade of “C” or better.

This course will take students through material covered in the first year college physics and prepare them to take the AP Physics 2 examination. Topics would include fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. Additionally, students will be introduced to problem formulation and laboratory analysis techniques necessary to succeed at the collegiate level. A hands on, inquiry style will be emphasized in lab. Recommended – Successful completion of Physics 1. (UC/CSU/NCAA)

PHYSICS C AP (Advanced Placement)**GRADES 11-12****10 CREDITS** **YEAR**

PREREQUISITE: Completion of Biology with a grade of “B” or better (2nd Semester) and completion of Chemistry with a grade of “B” or better (2nd Semester), or grade of “C” or better in Biology Honors (2nd Semester), and grade of “C” or better in Chemistry Honors (2nd Semester) **COREQUISITE:** Enrolled in Calculus I or successful completion Calculus I

This course will take students through the material covered in first semester of college physics, and prepare them to take the AP Physics C examination. Topics would include vector analysis and equilibrium; Newton’s laws of motion; work, power and simple machines; additionally, students will be introduced to problem formulation and laboratory analysis techniques necessary to succeed at the collegiate level. A “hands-on” style will be emphasized in lab including several design projects that will allow students some control of the direction of their own study. Recommended – Successful completion of Physics. (UC/CSU*/NCAA)

PHYSICS IB SL**GRADE 11 - 12****10 CREDITS** **YEAR**

PREREQUISITES: Grade of “B” or better in Biology Honors and Chemistry Honors (2nd Semester).

Students will study core topics including physical measurement, mechanics, thermal physics, oscillations and waves, electric currents, fields, and forces, atomic and nuclear physics, energy, power and climate change, motion in fields, thermodynamics, wave phenomena, quantum physics, digital technology, sight and wave phenomena, astrophysics, communications, and electromagnetic waves. Students will complete laboratory activities which count for their internal assessment. (UC/CSU/NCAA)

PHYSICS IB HL1**GRADE 11****10 CREDITS** **YEAR**

Prerequisites: Grade of “B” or better in Biology Honors and Chemistry Honors (2nd Semester). (UC/CSU*/NCAA)

PHYSICS IB HL2**GRADE 12****10 CREDITS** **YEAR**

PREREQUISITES: Grade of “C” or better in Physics HL1

Physics IB HL2 is a continuation of the work completed in Physics IB HL 1 for higher level IB Physics students. Additional topics will be addressed including wave phenomena such as sound, water, light, and optics; static and current electricity including circuits, magnetism, motors, and generators; and modern physics such as relativity, quantum effects, and solid state electronics. (UC/CSU*/NCAA)

ENVIRONMENTAL SCIENCE (ROP)
GRADES 10 – 12
10 CREDITS **YEAR**

This course provides students with a foundation of understanding, knowledge and skills to deal effectively with environmental problems. Students learn a variety of basic laboratory and field techniques, including specimen sampling and processing, site monitoring documentation, inspection and emergency response. When possible students have the opportunity to work with or consult experts in various environmental fields. The course incorporates both academic and applied studies. The structure and function of natural systems on environmental concerns are taught. Students also gain a broad awareness of environmental science and technological career opportunities. Job shadowing and internships are encouraged. An emphasis is placed on students making a positive impact on the environment. (UC/CSU/NCAA)

Asterisk (*): Qualifies for extra grade point UC/CSU NCAA: Qualifies for NCAA Eligibility Center for student athletes.

BUSINESS/TECHNOLOGY

INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) (Previously known as IC3)
GRADES 9-12
5 CREDITS **SEMESTER**

Information and Communication Technologies is the ideal starting point for students interested in learning more about computer networks, computer applications, and Internet basics. The program gives individuals sufficient Internet and computing literacy skills to enter current job markets or begin higher education programs. (Computer/Applied Arts)

KEYBOARDING
GRADES 9-12
5 CREDITS **SEMESTER**
PREREQUISITE: Case Carrier Approval

This course provides basic skills to effectively use a computer. Beginning keyboarding and introduction to basic computer applications are stressed.

COMPUTER SYSTEMS
GRADES 9-12
10 CREDITS **YEAR**
PREREQUISITE: A grade of "B" or better in Algebra I or Algebra "B".

This is a hands-on and theory course consisting of introduction to networks, microcomputer applications, algorithm development, and object oriented programming using Visual Basic and other software. This is a required course for all students accepted to Brahma Tech. (Applied Arts/Computers) (College credit -- An articulation agreement with Mt. San Antonio College enables students to earn college credit upon successfully passing their qualifying exam.)

MICROSOFT OFFICE USER SPECIALIST (MOUS)
GRADES 9 - 12
5 CREDITS **SEMESTER**

Students learn the fundamentals of Microsoft Word, Excel, PowerPoint and/OR Access. Course completion is determined by the mastery of competencies. Students cover the prerequisite skills for MOUS Certification. This course is part of a defined sequence and a pathway of courses in the Information Technology Industry Sector as defined by the California Department of Education. (Applied Arts)

INTRODUCTION TO ENGINEERING DESIGN
GRADES 9-12
10 CREDITS **YEAR**
PREREQUISITE: Completion or concurrent enrollment in Algebra

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 the same industry-leading 3D modeling software used by professionals 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. IED is the first foundation course in the Project Lead the Way "Pathway To Engineering" sequence intended for students interested in STEM careers. (UC/CSU - "G" Elective)

PRINCIPLES OF ENGINEERING

GRADES 10 – 12

10 CREDITS **YEAR**

PREREQUISITE: Completion of Algebra with a “C” or better; Completion or concurrent enrollment in Geometry; “C” or better in Introduction to Engineering Design

This survey course exposes students to major concepts they’ll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. Students will apply their learning in such projects as the building of solar hydrogen fuel cell vehicles, bridges and catapults, and the programming and development of robotic systems. They develop problem solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. POE is the second foundation course in the Project Lead the Way “Pathway To Engineering” sequence intended for students interested in STEM careers. (UC/CSU – “G” Elective)

DIGITAL ELECTRONICS

GRADES 11 – 12

10 CREDITS **YEAR**

PREREQUISITE: Completion or concurrent enrollment in Geometry; “C” or better in Principles of Engineering

This course introduces students to the study of digital circuits which forms the foundation of all modern electronic devices. Students analyze, design, and build their own digital electronic circuits using industry standard software and instruments to solve real world engineering problems. Students will also learn hands-on applicable skills such as soldering, bread-boarding, and programming microcontrollers. Digital Electronics is a specialization course in the Project Lead the Way “Pathway To Engineering” sequence to be taken after the completion of both foundation courses. (UC/CSU – “G” Elective)

ENGINEERING DESIGN & DEVELOPMENT

GRADES 12

10 CREDITS **YEAR**

PREREQUISITE: Completion or concurrent enrollment in Geometry; “C” or better in Digital Electronics

This capstone course allows students to get the chance to work in teams to research, design, test, document, and construct an engineering solution to a real-life problem. At the completion of the yearlong project, the team will present and defend their solution to a panel of independent professionals. Students will also, as a result of their exemplary projects, have the opportunity to register their work with the United States Patent and Trademark Office. EDD is the culmination of the Project Lead The Way “Pathway To Engineering” sequence and students will be expected to draw from all the skills and knowledge learned in those courses. (UC/CSU – “G” Elective)

ROBOTICS

GRADES 10-12

10 CREDITS **YEAR**

PREREQUISITE: Computer Systems or IC3; completion of Geometry with a C or better; completion of Biology with a C or better.

This course will introduce students to the science of mechanical design, and computer programming through the building of robots using the Lego Mindstorms NXT kits. The various robotic projects that will be completed throughout the year will tie together many disciplines taught in the classroom e.g. computer science, physics, biology, industrial design, math, psychology, and engineering. Students will be presented with modular challenges that they must solve collaboratively, and they must, critically, thoughtfully, and creatively, come up with solutions to these challenges in their design and application. Students will be expected to blog, journal, and document their learning for each module through building websites and writing student reports. The course will culminate in the class participating in various competitions, expositions and demonstrations on and off campus. Repeatable for credit. (Applied Arts)

COMPUTER SCIENCE AP (Advanced Placement)

GRADES 10-12

10 CREDITS **YEAR**

PREREQUISITE: A grade of “B” or better in Trigonometry, the last two years of English, and IC3 or Computer Systems.

This is an introductory college level course in object-orientated programming. A large part of the course is built around the development of computer programs that focus on development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. (Applied Arts) (UC/CSU*)

COMPUTER GRAPHIC DESIGN
GRADES 9-12
10 CREDITS **YEAR**

In Computer Graphics, students will explore two-dimensional and three-dimensional real-world applications of design. After acquiring a historical context of graphic design, students will develop skills in artistic perception, critiquing, and application of design strategies through experiences that emphasize solving visual art problems. Students will develop an awareness of historical trends in design, themes and subject matter from diverse times, places and cultures. Art criticism experiences will further develop a student's ability to see how their personal life affects their interpretations of design. All experiences will focus on developing perception and application of the elements of art and principles of design through contemporary design applications. Adobe Illustrator and Microsoft Publisher will be introduced. (Fine/Applied Arts) (UC/CSU "F" Elective VPA)

VIRTUAL ENTERPRISE
GRADES 9-12
5/10 CREDITS **SEMESTER/YEAR**

PREREQUISITE: Keyboarding skills and basic computer and technology knowledge (Completion of IC3 or Computer Systems preferred but not mandatory).

Students will be introduced to the global economy and the dynamics of business in a changing world through the creation of a business organization. Students, working in cooperative learning groups, with extensive use of multimedia computer applications will research and analyze business ventures, develop a business plan and marketing strategies, manage business finances, design and create a web page, and produce company newsletters. Simulation software will be incorporated for a realistic approach. (Applied Arts)
(UC/CSU "G" Elective – semester course only)

COMPUTER REPAIR
GRADES 10-12
5 CREDITS **SEMESTER**

PREREQUISITE: Have taken or currently enrolled in Algebra II and familiarity with the use and operation of a personal computer.

This course teaches students how computers work and how to troubleshoot problems with hardware and software. During the course of the semester, students will be required to assist in the repair and maintenance of microcomputers on campus. This course may be repeated for credit. Repeatable for credit. (Applied Arts)

Asterisk (*): Qualifies for extra grade point UC/CSU NCAA: Qualifies for NCAA Eligibility Center for student athletes.
