



John C. Kimball

High School

Course Catalog

2020-2021

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ENGLISH

English 1 P 1003

Grade Level: 9

Prerequisite: **None**

Graduation: Fulfills the first year of the four year English requirement

A-G: Meets "B" requirement

This course will include orientation and instruction in college preparatory language art skills including composition, grammar, reading, and speaking. Reading analysis and the writing process will be emphasized. This course is common core based and will provide the necessary skills for more advanced work. Students should expect homework 3-4 nights per week.

English 1 Pre AP 1011

Grade Level: 9

Prerequisite: **"B" or better in 8th grade English and current English teacher's signature.**

Graduation: Fulfills the first year of the four year English requirement

A-G: Meets "B" requirement

Students must meet proficiency criteria for enrollment. This class is an option for the student who wishes an additional challenge. Pre AP students will develop critical reading and writing skills in preparation for more advanced work. Students in this course will learn SAT vocabulary. They will write daily and be responsible for reading for reading 1000 pages for SSR each grading period. Student should expect homework daily.

English 2 P 1133

Grade Level: 10

Prerequisite: **None**

Graduation: Fulfills the second year of the four year English requirement

A-G: Meets "B" requirement

This college preparatory course offers further development of the language arts skills previously practiced. Vocabulary, grammar, reading, writing and speaking skills are further refined and integrated in a common core based program. Students are required to read and respond critically to different literary genres. Students should expect homework 3-4 nights per week.

English 2 Pre AP 1125

Grade Level: 10

Prerequisite: **"C" or better in current English class.**

Graduation: Fulfills the second year of the four year English requirement

A-G: Meets "B" requirement

Students must meet proficiency criteria for enrollment. This course will cover the same core material from English 2, but is for students intending to enroll in Advanced Placement English in 11th and 12th grade. It is a fast-paced, challenging course that will develop and refine reading and writing skills. Students should expect homework daily.

English 3 P 1263

Grade Level: 11

Prerequisite: **None**

Graduation: Fulfills the third year of the four year English requirement.

A-G: Meets "B" requirement

This College preparatory class builds and expands on skills taught in English 1 and 2. The curriculum is common core based. Students will respond critically to core literature through writing, listening and speaking. The writing process is emphasized as performance expectations increase. Students should expect homework daily.

AP English Language 3 1273

Grade Level: 11

Prerequisite: **"C" or better in current English class and completion of the AP contract.**

Graduation: Fulfills the third year of the four year English requirement.

A-G: Meets "B" requirement

This course begins a two-year program of advanced study of language and composition. Students will develop skills in analysis of different literary genres and rhetorical devices. Students will learn how to use rhetorical devices, as well as diction and syntax, to construct well thought arguments for both oratory and written presentation. This is a rigorous college level course. Students will learn and practice skills that will prepare them to take the Advanced Placement examination in Language and Composition. **Summer reading will be required prior to starting this class. The student will be responsible for obtaining the summer assignment from the school website.** Students should expect homework daily.

English 4 P 1383

Grade Level: 12

Prerequisite: **None**

Graduation: Fulfills the fourth year of the four year English requirement.

A-G: Meets "B" requirement

This college preparatory class builds and expands on skills taught in previous English courses. Students will study literature and continue to develop grammar and vocabulary skills in a common core based program, Critical analysis, thoughtful discussion and writing are emphasized. Students should expect homework daily.

AP English Literature 4 1393

Grade Level: 12

Prerequisite: **"C" or better in current English class and completion of the AP contract.**

Graduation: Fulfills the fourth year of the four year English requirement.

A-G: Meets "B" requirement

This is a second course in a two-year program of advanced study. Students will study challenging college-level literature. They will develop advanced analytical skills through critical reading and construct well thought arguments for written presentation. Performance expectations are very high. This course prepares students to take the Advanced Placement examination in Literature and Composition. **Summer Reading will be required prior to starting this class. The student will be responsible for obtaining the summer assignment from the school website.** Students should expect homework daily.

MATHEMATICS

Algebra Readiness 2065

Grade Level: 9

Prerequisite: **None**

Graduation: Fulfills 10 math credits. Does not meet Algebra requirement

A-G: No

Algebra Readiness is designed to prepare students for Algebra 1 with emphasis on foundational skills, student discourse, visual representations, and relational understandings. Topics covered include integers, equations, fractions, the coordinate system, and linear equations. Upon completion of Algebra Readiness, students will be prepared to enroll in Algebra 1, or Algebra 1 with Support.

Algebra 1 P with Support 2042 / 0600

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 credits towards the Algebra requirement and 10 credits of electives

A-G: Meets "C" requirement

Algebra 1 with Support is a dual period class and is designed to provide students with an additional period of math support to assist students in successfully completing the Algebra requirement for high school graduation. The class focuses on providing students with additional Algebra instruction and assistance, a review of essential math concepts, and study skills. Topics covered include integers, expressions, equations, inequalities, functions, sequences, linear equations, linear inequalities, systems, statistics, polynomials, quadratics, and exponential functions. Upon completion of Algebra 1 with Support, students will be prepared to enroll in Geometry.

Algebra 1 P 2052

Grade Level: 9, 10, 11, 12

Prerequisite: **"D" or better in Algebra Readiness.**

Graduation: Fulfills 10 credits towards the Algebra requirement

A-G: Meets "C" requirement

Algebra 1 is designed to provide for a full year of fundamentals in Algebra. Topics covered include integers, expressions, equations, inequalities, functions, sequences, linear equations, linear inequalities, systems, statistics, polynomials, quadratics, and exponential functions. Upon completion of Algebra 1, students will be prepared to enroll in Geometry.

Geometry P 2103

Grade Level: 9, 10, 11, 12

Prerequisite: **"D" or better in Algebra 1.**

Graduation: Fulfills 10 math credits

A-G: Meets "C" requirement

Geometry is designed to provide for a full year of fundamentals in Geometry. Topics covered include constructions, transformation, congruence, triangles, proof, quadrilaterals, statistics, probability, similarity, trigonometry, solids, and circles. Upon completion of Geometry, students will be prepared to enroll in Algebra 2 or Advanced Algebra 2.

Algebra 2 P 2093

Grade Level: 9, 10, 11, 12

Prerequisite: **“D” or better in Geometry.**

Graduation: Fulfills 10 credits towards Algebra/math requirement

A-G: Meets “C” requirement

Algebra 2 is designed to provide for a full year of intermediate and advanced Algebra. Topics covered include absolute value functions, piecewise functions, quadratic functions, polynomial functions, rational functions, radical functions, exponential functions, and logarithmic functions. Upon completion of Algebra 2, students will be prepared to enroll in Advanced Math or Pre-Calculus.

Algebra 2 Pre AP 2200

Grade Level: 9, 10, 11, 12

Prerequisite: **“D” or better in Geometry.**

Graduation: Fulfills 10 credits towards Algebra/math requirement

A-G: Meets “C” requirement

Algebra 2 Pre AP is designed to provide for a full year of intermediate and advanced Algebra, including more rigorous topics that extend into higher mathematics. Topics covered include absolute value functions, piecewise functions, quadratic functions, polynomial functions, rational functions, radical functions, exponential functions, and logarithmic functions. Upon completion of Algebra 2 Pre AP, students will be prepared to enroll in Advanced Math or Pre-Calculus.

Advanced Math P 2040

Grade Level: 11, 12

Prerequisite: **“D” or better in Algebra 2.**

Graduation: Fulfills 10 credits towards math requirement

A-G: Meets “C” requirement

Advanced Math is designed to provide for a full year of advanced Algebra. Advanced Math provides a third or fourth year of mathematics for students seeking an opportunity to build their mathematical fluency before advancing to Pre-Calculus or AP Statistics. Topics covered include analytical geometry, quadratic functions, trigonometric functions, systems, statistics, and probability. Upon completion of Advanced Math, students will be prepared to enroll in Pre-Calculus or AP Statistics.

Pre Calculus H 2137

Grade Level: 11, 12

Prerequisite: **“C” or better in Algebra 2 or “D” or better in Algebra 2 Pre AP.**

Graduation: Fulfills 10 credits towards math requirement

A-G: Meets “C” requirement

Pre-Calculus is designed to provide for a full year of advanced Algebra. Topics covered include analytical geometry, quadratic functions, trigonometric functions, systems, matrices, vectors, polar coordinates, statistics, probability, and derivatives. Upon completion of Advanced Math, students will be prepared to enroll in Pre-Calculus, AP Statistics, AP Calculus AB, or AP Calculus BC.

AP Statistics 2020

Grade Level: 11, 12

Prerequisite: **“C” or better in Algebra 2 or “D” or better in Algebra 2 Pre AP and AP contract.**

Graduation: Fulfills 10 credits towards math requirement

A-G: Meets “C” requirement

AP Statistics is designed to be taught as a college level course to prepare students for taking the Advanced Placement examination in Statistics. Topics covered include data analysis, data collection, probability, and inference. Upon completion of AP Statistics, students will be prepared to enroll in college level Statistics course-work.

AP Calculus A/B 2132

Grade Level: 11, 12

Prerequisite: **“D” or better in Pre Calculus H and completion of the AP contract.**

Graduation: Fulfills 10 credits towards math requirement

A-G: Meets “C” requirement

AP Calculus AB is designed to be taught as a college level course to prepare students for taking the Advanced Placement examination in Calculus AB. Topics covered include limits, derivatives, integration, and the definite integral. Upon completion of AP Calculus AB, students will be prepared to enroll in college level Calculus course-work.

AP Computer Science 3317

Grade Level: 10, 11, 12

Prerequisite: **Concurrent enrollment in Algebra 2.**

Graduation: Fulfills 10 elective credits

A-G: Meets "C" requirement

Computer science embraces problem solving, hardware, algorithms and perspectives that help people utilize computers to solve real-world problems in everyday life. The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for development solutions that can scale up from small, simple problems to large, complex problems.

NON DEPARTMENTAL

AVID 1 0115

Grade Level: 9

Prerequisite: **Must be recommended by the AVID Coordinator, AVID Counselor or Teacher. Student must submit application (applications can be picked up and dropped off in your school's front office or click here for AVID application)**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Each week, students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading (WICOR) to support their academic growth. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

Some students will have previous experience with AVID in the middle school grades, and some students will be experiencing AVID for the first time. Either way, the 9th grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals and communication, adjusting to the high school setting. Students will increase their awareness of their personal contributions to their learning as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest-speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest.

AVID 2 0215

Grade Level: 10

Prerequisite: **AVID I or must be recommended by the AVID Coordinator and/or AVID Counselor. Complete AVID application and participate in an AVID interview. If you are not an AVID student, you must submit application for enrollment.**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Each week, students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading (WICOR) to support their academic growth. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

During the 10th grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase their rigorous course load and school/community involvement, they will refine their time-management and study skills accordingly. Students will expand their writing portfolio to include analyzing prompts, supporting arguments and claims, character analysis, and detailed reflections. Students will also analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their colleges and careers of interest based on their personal interests and goals.

AVID 3 0315

Grade Level: 11

Prerequisite: **AVID II or must be recommended by the AVID Coordinator and/or AVID Counselor. Complete AVID application and participate in an AVID interview. If you are not an AVID student, you must submit application for enrollment.**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Each week, students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading to support their academic growth. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

The 11th grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies, and tasks that should be undertaken during the junior year to support students when they apply to four-year universities and confirm their postsecondary plans.

AVID 4 0415

Grade Level: 12

Prerequisite: **AVID III or must be recommended by the AVID Coordinator and/or AVID Counselor. Complete AVID application and participate in an AVID interview. If you are not an AVID student, you must submit application for enrollment.**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Each week, students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading (WICOR) to support their academic growth. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

The 12th grade AVID Elective course is the second part in a junior/senior seminar course that focuses on the writing and critical thinking expected of first- and second-year college students. Students will complete a final research essay project with research skills gained in their junior year in AVID. In addition to the academic focus of the AVID senior seminar, there are college-bound activities, methodologies, and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course.

AVID Tutor 8130

Grade Level: 11, 12

Prerequisite: **Must be recommended/approved by the AVID Coordinator, AVID Counselor, AVID Administrator or AP teacher.**

Graduation: Fulfills 10 elective credits

A-G: NO

AVID tutoring is a full year course for one period per day to assist AVID teachers at either the middle school or Kimball High in working with students who need help on improving their study skills and academic performance in the areas of English, math, social studies, and science. To become an AVID tutor, interested students must have good study skills, good grades and the desire to help others to be successful in a challenging environment. Additionally, all potential AVID tutors must be focused on four year college. Students must be recommended by their teachers and counselors and must participate in 16 hours of AVID tutor training during the summer prior to tutoring the AVID class. For more information about the AVID class, see the AVID course descriptions. If assigned to a middle school, you will be responsible for having your own transportation.

Modern Carpentry 5300

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 elective credits

A-G: No

An activity class for students who want to learn how to build useful items of wood. No experience is required. Emphasis is placed on learning safe use of tools and machines through the construction of several projects selected and designed by the student. Skills developed in this class will be useful as lifetime skills around the home, for recreational activities, and/or for pre-vocational skills and exploration.

Intermediate Modern Carpentry 5325

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Modern Carpentry.**

Graduation: Fulfills 10 elective credits

A-G: No

This is year two of the Modern Carpentry program that provides individuals with the competencies and information needed in residential and commercial construction. Included is: the study of fasteners and hardware, finishes and coatings, materials, installation techniques, laminating and bending methods, new and emerging technologies, levels and transits, foundations and floors, walls and partitions, roof systems, electrical wiring, interior and exterior and exterior finishes, floor covering, metal construction, heating and cooling, plumbing, concrete and brick masonry, insulation, glazing, maintenance, and landscaping. Also included is the study of stair construction, electrical wire and cables, installing electrical boxes and cable and construction technology and safety laws, and power tool safety.

Advanced Modern Carpentry 5350

Grade Level: 11, 12

Prerequisite: **“C” or better in Intermediate Modern Carpentry.**

Graduation: Fulfills 10 Elective credits

A-G: No

An instructional program that provides individuals with the competencies and information needed in residential and commercial construction. Included is: the study of fasteners and hardware, finishes and coatings, materials, installation techniques, laminating and bending methods, new and emerging technologies, levels and transits, foundations and floors, walls and partitions, roof systems, electrical wiring, interior and exterior and exterior finishes, floor covering, metal construction, heating and cooling, plumbing, concrete and brick masonry, insulation, glazing, maintenance, and landscaping. Also included is the study of stair construction, electrical wire and cables, installing electrical boxes and cable and construction technology and safety laws, and power tool safety

Speech & Debate 1 P 6061

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Elective credits

A-G: Meets "G" requirement

This course is designed to introduce students to the basics of public speaking and presentation, They will experience a variety of speaking situations such as persuasive, expository and extemporaneous speech. The class aims to enhance students' ability to communicate and listen effectively in a range of contexts including interpersonal communication. They will learn to critically evaluate orally presented information and arguments, and to consider specific techniques for using language as a communication tool.

Speech & Debate 2 P 6062

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Speech & Debate 1 P.**

Graduation: Fulfills 10 Elective credits

A-G: Meets "G" requirement

This course is designed to provide students with opportunities for use of advanced speaking techniques.

Technical Drawing 5123

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 elective credits

A-G: No

This is an introductory drafting course that will provide students with practical experiences in mechanical drawings. Included in the course are activities in measuring techniques, lettering, sketching, multi-view drawings, dimensioning, section-view drawings, auxiliary- view drawings and an introduction to pictorial drawings. Upon completion of the course students will be able to prepare and interpret simple architectural blueprints and will have a basic proficiency in the use of a computer aided drafting program. This course is a prerequisite for Advanced Technical Drawing.

Advanced Technical Drawing 5130

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Technical Drawing.**

Graduation: Fulfills 10 Elective credits

A-G: No

This course is designed to help students build on the skills obtained in Technical Drawing. Students will continue to explore design principles and the applied use of those principles in residential and commercial design. Students will explore the history of architecture, measuring techniques, basic room design and a final floor plan design. The efficient use of space, sketches, drafted floor plans, isometric and perspective pictorials, elevations, site plans and blueprinting make up most of the course work. Students will also use three dimensional software to design and build a 3-D model.

Video Game Design P 6056

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Elective credits

A-G: Meets "G" requirement

This course will teach students the basics of programming and video game design using the industry standard software Unreal Engine and Maya on Apple iMac computers. This course includes an introduction to basic knowledge, skills, ability, processes and tools required to create 3D Computer games and simulations.

Students will be involved in hands-on lab activities designed to help them create their own working games and a digital portfolio of original artwork to better prepare them for a career in the game design industry, as well as instruction in business communication and standard business procedures. The project-based curriculum integrates math, science, reading and technology while addressing real life skills through analyzing, brainstorming and creating solutions using the design progress.

Video Game Design 2 6057

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Video Game Design 1.**

Graduation: Fulfills 10 elective credits

A-G: No

This course will teach students the basics of programming and video game design using the industry standard software I on Apple iMac computers. This course includes an introduction to basic knowledge, skills, ability, processes and tools required to create 3D Computer games and simulations.

Students will be involved in hands-on lab activities designed to help them create their own working games and a digital portfolio of original artwork to better prepare them for a career in the game design industry, as well as instruction in business communication and standard business procedures. The project-based curriculum integrates math, science, reading and technology while addressing real life skills through analyzing, brainstorming and creating solutions using the design progress.

Computer Applications 4503 (Year 1)/4504 (Year 2)

Grade Level: 9, 10, 11, 12

Prerequisite: **Year 1 completion to enroll in Year 2**

Graduation: Fulfills 10 elective credits

A-G: No

With today's fast-paced technology and business standards, proficiency using a computer is a very necessary life skill. Would you like to have combined academic instruction with work-based learning experiences at a level you are able to handle? This is a comprehensive and interactive E-learning course teaching Microsoft Office Suite, preparing students for 21st century careers. Completing each program within the Office Suite with a "B" or better will lead to a Certificate recognizing completion of understanding and testing requirements Adding a Certificate provides students with an opportunity to build a portfolio of achievements. This course is also highly recommended for advancement in other technology coursework. Year 2 will provide an opportunity for students completing Year 1 to continue, improve, and develop mastery applying Microsoft Office Suite. Students completing this

Consumer Home Economics P 5501

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

This is a comprehensive course, which includes mini units in basic areas of home economics.

Personal Development, Nutrition and Food: cooking demonstrations and labs for a variety of different foods. Sewing: Beginning sewing techniques. Financial Literacy: with a focus on the importance of credit scores, using credit and making good financial decisions.

Leadership 8460

Grade Level: 9, 10, 11, 12

Prerequisite: **Elected ASB Officers, Class Officers and Appointed Commissioners by application process and with Activity Director's approval. Have a minimum GPA with no F's; signed parent/student contract.**

Graduation: Fulfills 10 Elective credits

A-G: No

This is a leadership development/activities class, for students who want to be actively involved in a Chapter, State or National student organization, or student body office. Students will receive training in public relations, team building, time and stress management, organizational skills, community service, career awareness and job preparation, project planning and presentations, public speaking and parliamentary procedures. Students will be involved in many hands-on activities and have the opportunity to practice all related skills. Students enrolled in the course are responsible for planning and carrying out all student body activities. The course will require considerable time outside of class. Students must maintain a minimum of a GPA and can have no F's in order to maintain good academic standing in leadership. Students will be removed from the course if they do not meet these requirements.

Sports Medicine 3420

Grade Level: 11, 12

Prerequisite: **“C” or better in Biology.**

Graduation: Fulfills 10 elective credits

A-G: No

This year long course is designed for students who are interested in fields such as; Athletic Training, Physical Therapy, Medicine, Fitness, Physiology of Exercise, Kinesiology, Nutrition, and other sports medicine related fields. The Sport Medicine class includes class work and practical hands-on applications in the following areas; prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, introduction to first aid/CPR, emergency procedures, and sports medicine careers.

Work Experience Education (WEE) 8471(single period)/8472(double period)

Grade Level: 11, 12

Prerequisite: **Must maintain good attendance and a positive discipline record at school and on the job, good grades, and never exceed 15 hours of Saturday School. Must show proof of employment and obtain a work permit.**

Graduation: Fulfills 10 elective credits

A-G: No

This is an elective course that extends Career Technical Education (CTE) learning opportunities for students with a combination of paid employment (minimum of 10 hours per week), mandatory related classroom instruction, and supervised paid employment. Mandatory related classroom instruction is held one day a week that cannot be made up (1 class = 1 week of class instruction). Students must attend 6 of 8 classes and complete assignments to pass this class. You will report to a job located in Tracy (excludes employment as a babysitter, street vendor, housekeeper, self-employment, independent contractor or private residence, newspaper carrier, or door-to-door sales) during the week and attend a class session eight times per school quarter. The WEE program is a collaborative education that assists you in choosing a career path wisely, obtain entry-level job skills, and prepare for full-time employment. Skill development in the workplace will include positive work habits, ethical decisions, responsibility, and job-related skills to prepare you for school-to-career transitions.

Yearbook 6031

Grade Level: 9, 10, 11, 12

Prerequisite: **Must submit completed application.**

Graduation: Fulfills 10 elective credits

A-G: Meets G Requirement

Yearbook Design is a full year course dedicated to the production of the school yearbook. The yearbook is produced by a student staff and contains a pictorial history of the school year. Students with a "B" average in English may apply to become a staff member. The advisor chooses the yearbook staff and its editors after an interview. Editors usually have some prior experience in yearbook and have computer skills. Yearbook staff members and editors are required to put in several out-of-school hours covering school events in addition to the class period. Staff members must enroll for the entire year. **Students must fill out an application** and have the recommendation of an English teacher before registration in the spring. Computer experience in Photo Shop and Illustrator is not a requirement but a plus. Yearbook may be repeated; Year 2 and Year 3 (editors).

Lab Assistant 8149

Grade Level: 11, 12

Prerequisite: **Teacher approval and signed contract.**

Graduation: Fulfills 10 Elective credits

A-G: No

Students may assist the teacher in preparation of learning materials and help the instructor with typing, filing, and copying materials. This section will be in a laboratory environment. (Students may not receive repeat credit as a Teacher Assistant for no more than 2 semesters.)

Teacher Aide 0800

Grade Level: 11, 12

Prerequisite: **Teacher approval and signed contract.**

Graduation: Fulfills 10 Elective credits

A-G: No

Students may assist the teacher in preparation of learning materials and help the instructor with typing, filing, and copying materials.

Office Aide 8001

Grade Level: 11, 12

Prerequisite: **Staff approval and signed contract.**

Graduation: Fulfills 10 Elective credits

A-G: No

Office Aide is a course designed to help students gain work experience in an office environment while supporting the KHS clerical and administrative staff. Students will be trained in office etiquette, office assistant skills and expected to follow the guidelines set forth by our clerical staff and administration. Because this class requires a student to be present in order to be of support, as well as to maintain a professional atmosphere, grades will be weighted **heavily on daily participation points.**

Physical Education (PE)

Core 9 PE 9001

Grade Level: 9

Prerequisite: **None**

Graduation: Fulfills 10 Physical Education credits

A-G: No

This is a required course for 9th graders that emphasizes fitness development. All students are tested using the FITNESSGRAM standards. Units are broken down into 4 to 5 week units. Activities will be composed of dual, individual, team, and lifetime sports. These include, but are not limited to, aquatics, baseball, soccer, dance, combative and gymnastics. The KHS Physical Education uniform (shirt/shorts) and athletic shoes are required.

Advanced PE 9101

Grade Level: 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Physical Education credits

A-G: No

This is a varied activity course which meets the 2nd year of the PE requirement for graduation. Units are broken down into 4 to 5 week units. Activities will be composed of dual, individual, team, and lifetime sports. These include, but are not limited to, golf, tennis, badminton, bocce ball, and volleyball. The KHS Physical Education uniform (shirt/shorts) and athletic shoes are required.

Competitive Athletics 9400

Grade Level: 10,11, 12

Prerequisite: **“C” or better in the previous Physical Education class.**

Graduation: Fulfills 10 Advanced Physical Education credits

A-G: No

This is a varied activity course which meets requirements for 10th grade PE. This class is also recommended for 11th and 12th graders. Units are broken down into 4 to 5 week units. Activities will be composed of dual, individual, team, and lifetime sports. These include, but are not limited to; golf, tennis, badminton, Bocce ball, and volleyball. The KHS Physical Education uniform (shirt/shorts) and athletic shoes are required. Due to limited space priority will be given to students participating in the following sports: Tennis, Golf, Softball, Baseball, Cross-country, and/or Track and Field. **(Offered 6th period only)**

Weight Training 9420

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in previous Physical Education class.**

Graduation: Fulfills 10 Advanced Physical Education credits

A-G: No

This course is designed to meet the year round training needs of all students. The focus of Weight Training is to improve athletic ability and prevent injuries through the use of Olympic & power lifting, core strengthening, flexibility work, and speed & agility training. Weight Training can be used to fulfill the Advanced PE requirement for graduation. The KHS Physical Education uniform (shirt/shorts) and athletic shoes are required.

Advanced PE/0 Period 9451

Grade Level: 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Physical Education credits

A-G: No

This class meets at 7:15am

This is a varied activity course which meets the 2nd year of the PE requirement for graduation. Units are broken down into 4 to 5 week units. Activities will be composed of dual, individual, team, and lifetime sports. These include, but are not limited to, golf, tennis, badminton, bocce ball, and volleyball. The KHS Physical Education uniform (shirt/shorts) and athletic shoes are required.

SCIENCE

Biology P 3136

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Life Science credits

A-G: Meets “D” requirement

Biology is the natural science that involves the study of life and living organisms, including their physical and chemical structure, function, development and evolution. This course gives students a good foundation in Biology with related Earth Science phenomena and Engineering applications. The following topics will be covered: cell structure and function; mitosis and cell division; cell differentiation; systems of specialized cells; homeostasis and feedback mechanisms; energy and matter flow through ecosystems; ecosystem dynamics; photosynthesis and cellular respiration; history of earth’s atmosphere and biogeochemical cycles; DNA structure and function; meiotic cell division; genetics; DNA replication; protein synthesis; evidence of evolution; natural selection and adaptations; social interactions and group behavior; ecosystem stability and its response to climate change; the influence of natural resource availability, natural hazards, and changes in climate on human populations; human impacts on ecosystems; natural resources and global climate change; conservation of natural resources-solutions and sustainability. This course meets all NGSS standards for Biology and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

Enhanced Biology 3163

Grade Level: 9, 10, 11, 12

Prerequisite: **“B” or better in 8th grade Science and current Science teacher signature.**

Graduation: Fulfills 10 Life Science credits

A-G: Meets “D” requirement

Biology is the natural science that involves the study of life and living organisms, including their physical and chemical structure, function, development and evolution. This course gives students a good foundation in Biology with related Earth Science phenomena and Engineering applications. In addition, Enhanced Biology provides students with the additional skills and content necessary for advanced study in the sciences. The following topics will be covered: cell structure and function; mitosis and cell division; cell differentiation; systems of specialized cells; homeostasis and feedback mechanisms; energy and matter flow through ecosystems; ecosystem dynamics; photosynthesis and cellular respiration; history of earth’s atmosphere and biogeochemical cycles; DNA structure and function; meiotic cell division; genetics; DNA replication; protein synthesis; evidence of evolution; natural selection and adaptations; social interactions and group behavior; ecosystem stability and its response to climate change; the influence of natural resource availability, natural hazards, and changes in climate on human populations; human impacts on ecosystems; natural resources and global climate change; conservation of natural resources-solutions and sustainability. This course meets all NGSS standards for Biology and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

AP Biology 3339

Grade Level: 11, 12

Prerequisite: **“C” or better in Biology P/Enhanced, Chemistry P/Enhanced and Physics P/Enhanced. Requires completion of the AP contract.**

Graduation: Fulfills 10 Life Science credits

A-G: Meets “D” requirement

This course will prepare students for the AP exam in Biology. Students that score well on the test can earn college credit. Topics covered include: Biochemistry, cells, energy relationships, reproduction and heredity, and genetic variation. Students taking Advanced Biology should be prepared to study college/university level topics using a college textbook. Added emphasis will be on inquiry, laboratory skills and mathematical computation. **Students entering this class are expected to complete a summer assignment prior to the beginning of the academic year which is due the first week of school.**

Chemistry P 3266

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P/Enhanced and concurrent enrollment in Algebra 1 or higher level math course and current science teacher signature.**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

This course gives students a good foundation in Chemistry with related Earth Science phenomena and Engineering applications. The following topics will be covered: scientific measurements, combustion, conservation of mass and energy, atomic structure and bonding, Coulomb's law, the internal structure of the earth, feedback loops, thermochemistry, periodic table, chemical reactions, stoichiometry, Le Châtelier's law, reaction rates, greenhouse gases, climate change and human effects, solutions, acids and bases, the carbon cycle, resource management, and engineering designs. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

Enhanced Chemistry 3294

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P/Enhanced and concurrent enrollment in Geometry or higher level math. Current science teacher signature.**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

This course gives students a good foundation in Chemistry with related Earth Science phenomena and Engineering applications. In addition, Enhanced Chemistry provides students with the additional skills and content necessary for additional study in the sciences. The following topics will be covered: scientific measurements, combustion, conservation of mass and energy, atomic structure and bonding, Coulomb's law, the internal structure of the earth, feedback loops, thermochemistry, periodic table, chemical reactions, stoichiometry, Le Châtelier's law, reaction rates, greenhouse gases, climate change and human effects, solutions, acids and bases, the carbon cycle, resource management, and engineering designs. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

AP Chemistry 3295

Grade Level: 11, 12

Prerequisite: **“C” or better in Biology P/Enhanced and Physics P / Enhanced (Recommended). Requires completion of the AP contract.**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

This course is designed to be the equivalent to the general chemistry course usually taken during student's college freshman year. The objective is to provide the student with some college level experience in chemistry, and to pass the AP examination. This course meets all NGSS standards for Chemistry and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation. **Students entering this class are expected to complete a summer assignment prior to the beginning of the academic year which is due the first week of school.**

Physics P 3330

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P/Enhanced and concurrent enrollment in Algebra 1 or higher level math course and current science teacher signature.**

Graduation: Fulfills 10 physical science credits

A-G: Meets “D” requirement

Physics is the study of matter and energy and the interaction between them. Physics is about asking fundamental questions about the world around us, and trying to answer them by observing and experimenting. This course gives students a good foundation in Physics with related Earth Science phenomena and Engineering applications. The following topics will be covered: forces, laws of motion, structures, plate tectonics, momentum, collisions, universal gravity, Kepler's laws, planetary motion, waves, earthquakes, wave technology, the nature of light, optics and light spectra, the big bang theory, electrostatics, electricity and circuits, magnetism and electromagnetic induction, energy, power plants, renewable sources, nuclear radiation and processes, and history of the Earth, stars and the universe. This course meets all NGSS standards for Physics and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

Enhanced Physics 3311

Grade Level: 10,11, 12

Prerequisite: **“C” or better in Biology P/Enhanced and concurrent enrollment in Geometry or higher level math. Current science teacher signature**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

Physics is the study of matter and energy and the interaction between them. Physics is about asking fundamental questions about the world around us, and trying to answer them by observing and experimenting. This course gives students a good foundation in Physics with related Earth Science phenomena and Engineering applications. In addition, Enhanced Physics provides students with the additional skills and content necessary for advanced study in the sciences. The following topics will be covered: forces, laws of motion, structures, plate tectonics, momentum, collisions, universal gravity, Kepler's laws, planetary motion, waves, earthquakes, wave technology, the nature of light, optics and light spectra, the big bang theory, electrostatics, electricity and circuits, magnetism and electromagnetic induction, energy, power plants, renewable sources, nuclear radiation and processes, and history of the Earth, stars and the universe. This course meets all NGSS standards for Physics and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation.

AP Physics 1 3315

Grade Level: 11, 12

Prerequisite: **“C” or better in Biology P / Enhanced and Chemistry P / Enhanced. C or better in Algebra 2. Signature of recommendation from math and science teachers.**

Requires completion of the AP contract.

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

AP Physics 1 is an algebra based introductory college level physics course that is the equivalent to a first semester college course. The course explores the following topics: Newtonian Mechanics (including rotational motion), work, energy and power, mechanical waves and sounds, and introductory to simple circuits. Through inquiry based learning, students will develop scientific, critical thinking and reasoning skills. The requirement is 25% hands on laboratory work. Students are encouraged to take the AP Physics exam in May. This course meets all NGSS standards for Physics and Engineering Design, and many NGSS standards for Earth and Space Sciences. This is one of three science courses that are required for high school graduation. **Summer assignment is due the first day of school. See school website for details.**

OTHER SCIENCES

Human Physiology P 3203

Grade Level: 11, 12

Prerequisite: **“C” or better in Biology P / Enhanced and current science teacher signature.**

Graduation: Fulfills 10 elective credits

A-G: Meets “D” requirement

The study of Human Physiology is for students interested in careers in any field related to health or medicine, such as nursing, physical or sports therapy, chiropractic, veterinary science, medical coding, etc. While it is NOT an Advanced Placement course, this course uses a junior college textbook and is taught at the first-year level. This course includes the study of the human body, its structure and how it functions. The course concentrates on the organ systems making up the human body and how they interact to maintain health through homeostasis. Inquiry based labs are essential to learning human physiology. Dissections are a required part of this course. Students need good study and organizational skills, above average reading ability and excellent vocabulary skills.

Introduction to Computer Science P 4558

Grade Level: 9, 10, 11, 12

Prerequisite: **“C” or better in Algebra 1, including 9th graders who have completed a high school level Algebra 1 course.**

Graduation: Fulfills 10 elective credits

A-G: Meets “D” requirement

Introduction to Computer Science is designed for students with no prior experience programming or coding to build their foundational understanding of computer science and basic programming using JavaScript. Topics covered include data types, loops, algorithms, and data structures. Upon completion of Introduction to Computer Science, students will be prepared to enroll in AP Computer Science Principles or AP Computer Science A.

SOCIAL SCIENCE

World History P 7103

Grade Level: 10

Prerequisite: **None**

Graduation: Fulfills 10th grade social science requirement

A-G: Meets "A" requirement

This course examines major events, philosophical movements and technical advances in world history from the rise of democratic states in the 17th Century to the present era. World History is a 10th grade graduation requirement that examines the critical events, trends, government, economics, religious, philosophical movements, and technological advances that effect the course of Western, as well as Middle Eastern, Asian, African and Western Hemisphere cultures from the rise of democratic states in the early 1600s to the present era.

AP World History 7104

Grade Level: 10

Prerequisite: **"C" or better English 1 P and completion of the AP contract..**

Graduation: Fulfills 10th grade social science requirement

A-G: Meets "A" requirement

Students may take this course instead of World History P to engage in a more rigorous course of study in preparation for college. This course is an in-depth, college-level study of the evolution of human civilizations, global processes and contacts, and comparisons among major societies focusing on changes and continuities. The course builds on an understanding of cultural, political, economic, social, and technological precedents that along with geography, sets the stage for societies and interactions from the time of the first humans to the present day. Document-based analysis, essays, and reading assignments from various texts and primary sources are emphasized. Students enrolled in the course are encouraged to take the AP exam in May. **The student will be responsible for obtaining the summer assignment from the school website.**

US History P 7253

Grade Level: 11

Prerequisite: **None**

Graduation: Fulfills 11th grade social science requirement

A-G: Meets "A" requirement

This is a required course which builds on the foundation of US History instruction given in 8th grade. The course is an in-depth study of United States History in the 20th century, beginning with the Progressive Era and ending at present times. Emphasis will be on reading, writing, thinking and speaking skills.

AP US History 7255

Grade Level: 11

Prerequisite: **“C” or better in World History P or AP World History and completion of the AP contract.**

Graduation: Fulfills 11th grade social science requirement

A-G: Meets “A” requirement

Students may take this course instead of US History P to engage in a more rigorous course of study in preparation for college. The AP US History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university US History survey courses’ increased focus on early and recent American history and decreased emphasis on other areas, the AP US History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the present. It also allows teachers flexibility across nine different periods of US History to teach topics of their choice in depth. Students enrolled in the course are encouraged to take the AP exam in May. **The student will be responsible for obtaining the summer assignment from the school website.**

American Government & Economics P 7391/7381*

Grade Level: 12

Prerequisite: **None**

Graduation: Fulfills 12th grade social science requirement

A-G: Meets “A” requirement

This course is a graduation requirement and must be taken in the 12th grade. The American Government portion of the course consists of one semester, which will focus on how national, state, and local governments are organized and function. The Economics semester is designed to develop and promote economic literacy and enhance student understanding of the economic problems and institutions of the nation and the world in which we live. Both courses will stress communications and thinking skills, as well as both individual and group work.

***Students will be scheduled in one semester of Economics and one semester of American Government.**

AP US Government and Politics 7383

Grade Level: 12

Prerequisite: **“C” or better in US History P or US History AP and completion of the AP contract.**

Graduation: Fulfills 12th grade social science requirement

A-G: Meets “A” requirement

Students may take this course instead of American Government & Economics P to engage in a more rigorous course of study in preparation for college. The AP United States Government and Politics course will give students an analytic perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret US Government and Politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US Government and Politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Students enrolled in the course are encouraged to take the AP exam in May. This course satisfies the 12th grade social studies requirement. **The student will be responsible for obtaining the summer assignment from the school web site.**

SOCIAL SCIENCE ELECTIVES

Introduction to Psychology P 7340

Grade Level: 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

This is a general course designed to give students a broad overview of the different areas of Psychology. The central question the course will attempt to answer is "Why people behave the way they do?" Students will explore their own behavior and analyze themselves in terms of the curriculum. Students will take part in interactive lessons, cooperative assignments and class discussions. This class serves as a good base for students who plan to take AP Psychology and Psychology in college.

AP Psychology 7352

Grade Level: 11, 12

Prerequisite: "C" or better in World History P/AP or US History P/AP and completion of the AP contract.

Graduation: Fulfills 10 elective credits

A-G: Meets "G" requirement

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students will take part in interactive lessons, cooperative assignments, document analysis, and class discussions. This class serves as a good base for students who plan to take Psychology in college. Students enrolled in the course are encouraged to take the AP exam in May. **The student will be responsible for obtaining the summer assignment from the school web site.**

VISUAL AND PERFORMING ARTS

VISUAL ARTS

Art & Design 1 P 6003

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Art & Design 1 offers students the opportunity to explore the fundamentals of the elements of art through the development of their own original projects. This class will teach students basic drawing concepts, creative problem solving, and how to develop projects through research, analysis, and critique. Students will showcase their ability to communicate visually and learn how art and design is seen in our everyday world. Students will study art history, art related careers and experience various mediums to complete their projects in two or three dimension.

Multicultural Art & Design P 6025

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Multicultural Art course will focus on the influence of diverse multicultural art styles of the world. This course will look at how art has influenced the world globally. In addition, students will have the opportunity to reflect on their own culture as well as look at similarities and differences of other cultures in the world. Students will experience projects in two and three dimension as well as, use technology for research and references for hands on multimedia projects. Elements of art and principles of design will be addressed in each unit as students explore our global society through visually art. Students will research historical and cultural influences on artists, cultures, in our ever changing international world.

Advanced Art & Design P 6008

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Art & Design P or Multicultural Art & Design P.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Advanced Art & Design is for the student who has successfully completed Art & Design 1. This course expands and builds on knowledge and skills acquired in Art & Design 1 and further explore composition through the elements and principles of design. Students will have the opportunity to experience various mediums through more extensive projects. Art history and career exploration will be part of the process to making connections to the creative process. Students will learn to critique artwork and continue to develop various ways to communicate visually.

AP Art & Design 6020

Grade Level: 11, 12

Prerequisite: **Recommended two years of art prior to taking this course and completion of the AP contract.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Advanced Placement Art & Design is a college level art course for serious art students. Each student prepares a portfolio of work to submit for the College Board AP Exam. Success on the AP Art & Design examination can enable students to earn college credits and placement in college programs. The exam demands that a student create up to 20 works of art showing competency in a range of materials within a specific portfolio (2-D, 3-D, or Drawing) along with written explanation. The workload requires projects to be done both in and out of class. Students must exhibit a high level of self-motivation and maintain a strong work ethic during every class period throughout the course of the year. Students accepted can find the summer assignment on the school website. **See teacher for application.**

Graphic Arts 1 P 6030

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This class is an introduction to Graphics Arts. Students will learn basic design skills using the Adobe Illustrator and Photoshop. They will build on their knowledge of design elements, principles, and art history from Art 1. Some projects may include, but are not limited to: character design, logo design, package design and advertising while learning to use design industry-standard software. Students must have basic drawing skills.

Advanced Graphic Arts P 6136

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Graphic Arts 1 P.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This class is a follow up to Graphic Arts 1. Students will improve skills and techniques learned in Graphic Arts 1. Some examples of Adv. Graphic projects may include, but are not limited to poster design, public service projects, and an introduction to digital photography. Students will have an opportunity to collaborate with clients, work in student design teams and plan projects with professionals in related fields. Students will learn how to create published work such as magazines, books and newspapers with InDesign publishing program.

PERFORMING ARTS

Drama P 6042

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This course is designed to give the students a survey of theater. Emphasis is placed on developing basic acting and improvisation skills, as well as playwriting and performance critiques. Tech theatre, theatre history and musical theatre; units include creative dramatics, monologue, group acting, Shakespeare, spoken word, lip sync, pantomime and scene work.

Advanced Drama P 6053

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Drama P.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Advanced Drama will expand on the experiences from Intro to Drama. Students will further their knowledge in acting, directing and theatre productions. This class will require the student to do a research assignment including acting and directing, set design, lighting design, costume design, and stage management. Students will work on Jaguar Theatre Productions. Missed shows will affect your grade.

Tech Theatre 3067

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Drama.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This course will introduce students to technical works. Students enrolled will be exposed to technical elements of theatre. Students will design and create artistic elements seen in the productions which include sets, costumes, make-up, lights, sounds and props. Students work will be showcased formally in school productions throughout the year. Missed shows will affect your grade. **This class will be offered as a 7th period after the regular school day.**

MEDIA PRODUCTION

Media Production P 6040

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Enter the exciting world of video and digital video production! In this course, students acquire the visual arts skills to create quality video productions, using state of the art digital production equipment. There will be an emphasis on the uses of communication and organizational skills. Video Production will offer a comparison of the mediums of film, television and video. Students will study the history of film, television and video as art forms and as mass media, including their impact on American culture. After exploring aspects of pre-productions and script writing, students learn camera work, lighting, and sound. They will study the art of directing and editing. Students will complete projects primarily in video.

Media (Video) Production 2 P 6049

Grade Level: 10, 11, 12

Prerequisite: **"C" or better in Media Production P.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This course will build upon the concepts of video production and participation in the pre- production, production, and post-production processes learned Beginning Video. Students will learn advanced editing, audio, and lighting concepts. Students will complete projects based on the analysis of film types and styles, which will be shown through class and the school announcements. Students will evaluate their films and the films of others to further apply the art of filmmaking, including the creative process, drafts within the writing process, and individual and collaborative work. Students will complete projects primarily in video. Students will complete service-learning projects that will promote school and community events, such as a daily video bulletin. Students will also contribute to the video yearbook for the year. In addition to class projects, students will be required to videotape events during the school day and after school up to 30 additional hours outside of class will be required throughout the year in order to pass this class.

Media (Video) Production 3 6059

Grade Level: 10, 11, 12

Prerequisite: **"B" or better in Media Production 2.**

Graduation: Fulfills 10 Fine Arts/elective credit

A-G: No

This course will build upon the concepts of video production and participation in the pre- production, production, and post-production processes learned in Introductory and Intermediate Video Production. Students will learn advanced editing, audio, and lighting concepts, as well as advanced composition and camera techniques. Students will complete service-learning projects that will promote local Tracy area businesses and organizations and TUSD events via the Kimball High News bulletin and Comcast 26 public access station. Students will continue to critique and analyze film and video of various genres and formats and complete video projects that will educate, explore, and promote film and video. Students will complete fiction and non-fiction narrative projects based on the analysis of film types and styles, which will be shown through class. Students will evaluate their own films as well as those of their peers to further apply the art of filmmaking, including the creative process, drafts within the writing process, and individual and collaborative work. Students will be expected to complete 30 hours of video outside of class and contribute to the video yearbook.

MUSIC

Beginning Choir P 6153

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Beginning Choir students will develop proper individual vocal and ensemble singing techniques. Students can join this class having no prior singing experience and will perform music of varied styles/periods as well as gain an understanding of basic musical notation. Singers will be required to attend a few after school and/or evening activities (performances and rehearsals) and purchase a uniform. Students can receive credit for four years in this class.

Concert Choir P 6143

Grade Level: 10, 11, 12

Prerequisite: **Current choir teacher signature.**

Graduation: Fulfills 10 Fine Arts/elective credit

A-G: Meets "F" requirement

Concert Choir is a course for students who have previous signing experience and wish to continue to develop proper voice technique as individuals and within ensembles. The entire year focuses on performance styles, proper concert dress attire, and an advanced level of artistry. Intermediate and advanced musical notation is also included in this course. Participation in scheduled after school and evening performances and rehearsals are required for this course. Concert Choir may be repeated for credit. Auditions for this course are held in May to allow time for placement and class formation.

Kimball Classics P 6155

Grade Level: 10, 11, 12

Prerequisite: **Current choir teacher signature.**

Graduation: Fulfills 10 Fine Arts/elective credit

A-G: Meets "F" requirement

Advanced Choir students will be expected to have had singing experience and will continue to develop proper individual vocal and ensemble techniques. Student will continue to perform music of varied styles and periods while focusing on "performance" styles and an advanced level of artistry. They will also gain an understanding of basic to advanced musical notation. This course requires students to attend a few after school and evening activities (performances and rehearsals) and wear proper choir attire. Student can receive credit for four years in this class. Auditions for this group are held in May to allow time for placement and class formation.

Concert Band P 6090

Grade Level: 9, 10, 11, 12

Prerequisite: **Current music teacher signature.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

This band will be mainly comprised of freshmen or first-year players. The class will have the components of marching band, pep-band and concert band. Students will play music of varying styles and time periods. Throughout the year, students will be expected to attend co-curricular performances/rehearsals outside of school. Instrumental and musical fundamentals will be reviewed.

Symphonic Band P 6093

Grade Level: 9, 10, 11, 12

Prerequisite: **Current music teacher signature.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G: Meets "F" requirement

Band will have the components of concert wind band performance. Students will play music of varying styles and time periods. In addition to skill development, emphasis is placed on a high standard of musical excellence in the preparation and performance of band literature. Throughout the year, students will be expected to attend co-curricular performances/rehearsals outside of school. Instrumental and musical fundamentals will be reviewed. Concert Band is a performance ensemble class for incoming 9th grade or first year students. Band will have the components of concert wind band performance. Students will play music of varying styles and time periods. In addition to skill development, emphasis is placed on a high standard of musical excellence in the preparation and performance of band literature. Throughout the year, students will be expected to attend co-curricular performances/rehearsals outside of school. Instrumental and musical fundamentals will be reviewed.

Orchestra P 6103

Grade Level: 9, 10, 11, 12

Prerequisite: **One year experience with instrument and teacher's signature.**

Graduation: Fulfills 10 Fine Arts/elective credits

A-G Meets "F" requirement

This course provides opportunities for students to develop their musical potential and aesthetic understanding through learning to play orchestral string instruments. Student will learn techniques, performance practice, and historical background of various types of orchestral music. Students will strengthen listening skills and their ability to analyze and evaluate music and music performances. Attention will also be given to relating their music experiences to the time and culture of the pieces they study, as well as to contemporary society. Students will be required to attend after school and evening performances. Students can receive four years of credit for this class.

Jazz Band P 6113

Grade Level: 9, 10, 11, 12

Prerequisite: **Current music teacher signature.**

Graduation: Fulfills 10 Fine Arts/Elective credits.

UC/CSU: Meets the "F" requirement.

Band will have the components of Jazz improvisation. Students will play music of varying styles and time periods. In addition to skill development, emphasis is placed on a high standard of musical excellence in the preparation and performance of band literature. Throughout the year, students will be expected to attend co-curricular performances/rehearsals outside of school. Instrumental and musical fundamentals will be reviewed.

WORLD LANGUAGE

French 1 P 4013

Grade Level: 9, 10, 11, 12

Prerequisite: **“C” or better in English.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

French 1 is an academic, college preparatory class. Students are not required to take a language to meet high school graduation requirements. The first year course stresses communication and interpersonal relationships in meaningful cultural contexts. Students will learn to speak about themselves, their families, and their preferences. They will be given frequent opportunities to express themselves in a variety of ways. Students will read simple passages in the target language. Strong study skills, self-discipline and daily attendance are necessary. Students should expect to be assigned homework on a daily basis. ***This class will be taught mostly in the target language.***

French 2 P 4123

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in French 1.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

Upon entering this class, a student must be able to comprehend and accurately utilize material covered in French 1. Students will continue to learn how to communicate in the target language. Students will learn to communicate about past events, as well as their future plans. As their vocabulary skills grow, they will apply them in a variety of conversational and cultural situations. A student should be able to comprehend short readings in the target language. Oral and written skills will be expanded. Strong study skills, self-discipline and daily attendance are necessary. Students should expect to be assigned daily homework. ***The class will be taught in the target language.***

French 3 Pre AP 4230

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in French 2.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

A student entering this class must thoroughly understand and utilize the material covered in French 2. Students will continue practicing the material learned the previous two years. They will learn more sophisticated language skills and be able to communicate about global issues: the environment, the arts, technology and more. The cultures of the target language will continue to be explored. Students will also begin writing short essays. ***The class will be taught in the target language.*** Home work will be assigned every time the class meets. Strong study skills, self-discipline and regular attendance are required.

AP French Language 4 4345

Grade Level: 11, 12

Prerequisite: **“C” or better in French 3. Requires completion of the AP contract.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

This is an advanced college level course in language preparation for the Advanced Placement exam. Students will expand their knowledge of grammar, read short stories and articles with ease and understanding, converse with considerable fluency and write with correctness and clarity on topics of non-technical nature in order to be successful in the class. Responsibility and daily attendance are essential. ***No English will be used in this class.***

Spanish 1 P 4033

Grade Level: 9, 10, 11, 12

Prerequisite: **“C” or better in English.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

Spanish 1 is an academic, college preparatory class and one of two alternatives (Fine Arts is the other alternative) to meet high school graduation requirements. The first year course stresses communication and interpersonal relationships in meaningful cultural contexts. Students will learn to speak about themselves, their families, and their preferences. They will be given frequent opportunities to express themselves in a variety of ways. Students will read simple passages in the target language. Strong study skills, self-discipline and daily attendance are necessary. Students should expect to be assigned homework on a daily basis. ***The class will be taught mostly in the target language.***

Spanish 2P 4153

Grade Level: 9, 10, 11, 12

Prerequisite: **“C” or better in Spanish 1.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

Upon entering this class, a student must be able to comprehend and accurately utilize material covered in level 1. Students will continue to learn how to communicate in the target language. Students will learn to communicate about past events, as well as their future plans. As their vocabulary skills grow, they will apply them in a variety of conversational and cultural situations. A student should be able to comprehend short readings in the target language. Oral and written skills will be expanded. Strong study skills, self-discipline and daily attendance are necessary. Students should expect to be assigned daily homework. ***The class will be taught in the target language.***

Spanish for Spanish Speakers P 4053

Grade Level: 9, 10, 11, 12

Prerequisite: **Speak Spanish, “C” or better in English.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

This course is designed for students who speak Spanish at home but need to learn or improve how to write and read it. Students will learn the difference between standard Spanish and regional Spanish. Students will also learn to differentiate formal and informal register. This course will provide a basic introduction to grammar, oral development, basic writing and reading skills. Students will learn the culture and history of selected Spanish speaking countries and will be introduced to selected Hispanic literary works. Students should expect to be assigned homework on a daily basis.

Students will continue to learn the difference between standard Spanish and regional Spanish. Students will further differentiate formal and informal registers. This course will provide instruction in grammar, oral development, basic writing and reading skills. Students will learn the culture and history of selected Spanish speaking countries and will focus on selected Hispanic literary works. Strong study skills, self-discipline and daily attendance are necessary. Students should expect to be assigned daily homework.

Este curso está diseñado para los estudiantes que hablan español en casa, pero necesitan aprender o mejorar a escribirlo y leerlo. Los estudiantes aprenderán la diferencia entre español estándar y regional. Los estudiantes también aprenderán la diferencia entre el registro formal e informal. Este curso proporcionará una introducción básica a la gramática, desarrollo oral, y habilidades básicas de escritura y lectura. Los estudiantes aprenderán la cultura y la historia de países selectos de habla español y serán presentados con trabajos literarios selectos del mundo hispano.

Los estudiantes seguirán aprendiendo la diferencia entre el español estándar y regional. Los estudiantes también aprenderán la diferencia entre el registro formal e informal. Este curso proporcionará instrucción en gramática, desarrollo oral, y habilidades básicas de escritura y lectura. Los estudiantes aprenderán la cultura y la historia de países selectos de habla español y se concentrarán en trabajos literarios del mundo hispano

Spanish 3 Pre AP 4270

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Spanish 2.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

A student entering this class must thoroughly understand and utilize the material covered in Spanish 2. Students will continue practicing the material learned the previous two years. They will learn more sophisticated language skills and be able to communicate about global issues: the environment, the arts, technology and more. The cultures of the target language will continue to be explored. Students will also begin writing short essays. ***The class will be taught in the target language.*** Home work will be assigned every time the class meets. Strong study skills, self-discipline and regular attendance are required.

AP Spanish Language 4 4385

Grade Level: 11, 12

Prerequisite: **“C” or better in Spanish 3. Requires completion of the AP contract.**

Graduation: Fulfills 10 elective credits

A-G: Meets “E” requirement

The purpose of this course is to prepare students to take the AP Spanish Language Exam. This is a national exam given at the beginning of May. If students pass with a score of 3 or better, students may obtain college credit for the course (please check your universities of choice on their AP credit acceptance policies). This course is for students who want to develop proficiency and integrate their language skills, using authentic materials and sources. The AP Spanish course helps prepare students to demonstrate their level of Spanish proficiency across three communicative modes: interpersonal, interactive communication and productive communication. This course is comparable to a third year college/university course. Daily attendance is imperative in order to succeed. This is not an off-site course and lessons will not be replicated. Students should expect to be assigned daily homework. Students entering this class are expected to complete a summer assignment prior to the beginning of the academic year which is due the first week of school.

SPECIAL EDUCATION

Organization/Academic Assistance Class (OAAC) 8320

Grade Level: 9, 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 elective credits

A-G: No

This elective course is designed to assist students enrolled in general education classes. Students will learn study skills and strategies to enhance their performance in content area classes. This independently paced course will also emphasize writing and organizational skills. Students will also have the opportunity to complete class work homework or projects with support from a teacher and/or Para-educator as needed. Not recommended for students enrolled in two or more accommodated or modified level courses.

Modified Independent Living 8266

Grade Level: 9, 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 Elective credits.

A-G: No

The course is an elective class that will teach students to make choices that benefit a healthy lifestyle. Students will learn positive communication skills and making their needs known (self-advocacy). Post secondary independence skills and training will be addressed. This course will also incorporate community based services on our campus.

SPED ENGLISH

Modified English 8258

Grade Level: 9, 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 English credits A-G: No

This course is designed to increase the student's basic understanding of reading, oral and written language and spelling skills. Each student will be working toward the high school graduation or certificate of completion. This course prepares students for successful advancement to the next leveled class.

Accommodated English 8231

Grade Level: 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 English credits

A-G: No

Oral language, vocabulary, spelling, grammar, and writing development will be addressed. Exposure to a variety of literature styles, as well as, oral reading and comprehension are part of the curriculum. This course prepares students for transition into general education English. Common Core grade level standards are addressed. This course counts as English credit for students on track for a high school diploma.

SPED MATH

Modified Math 8250

Grade Level: 9, 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 math credits

A-G: No

This course will address basic life and consumer math skills. Mathematical operations with whole numbers, decimals, and fractions will be covered in areas which may include consumer education, daily living skills, measurement, and personal finances. Students enrolled in this class are on track for a certificate of completion.

SPED SCIENCE

Modified Integrated Science 8262

Grade Level: 9, 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 science credits

A-G: No

This course is designed to increase the student's understanding of concepts in life and physical sciences. The curriculum will cover the life cycles of plants and animals, the human body systems; and genetics. Physical Science will explore concepts dealing with energy, mass and matter. The curriculum is standards based and will give the students an opportunity to gain scientific process skills such as observing, collecting and organizing data, measuring, classifying, hypothesizing and predicting. These skills will be explored through collaborative groups, independent work, projects, labs and class discussions.

SPED SOCIAL SCIENCE

Modified World History 8235

Grade Level: 10, 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 social science credits

A-G: No

This course is designed to build on the foundation of world history instruction given in middle school (6th and 7th grades). This course examines major events in world history from ancient civilizations through modern times. Emphasis will be on reading, writing, thinking and speaking skills, computer and library research, by using both individual and group work.

Modified US History 8236

Grade Level: 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 social science credits

A-G: No

This course is designed to build on the foundation of US History instruction given in middle school (8th grade). This course will explore major events in US History from the earliest American cultures to the present day. Emphasis will be on reading, writing, thinking and speaking skills, using both individual and group work.

Modified Economic/Government 8239

Grade Level: 11, 12

Prerequisite: **Case Manager signature.**

Graduation: Fulfills 10 social science credits

A-G: No

The American Government portion of the course consists of one semester, which will focus on how national, state, and local governments are organized and function. The economics semester is designed to develop and promote economic literacy and enhance student understanding of the economic problems and institutions of the nation and the world in which we live. Both courses stress communication and thinking skills, as well as individual and group work.

MEDICAL & HEALTH SERVICES ACADEMY

MHSA ENGLISH

English 1P Medical Health Services Academy 1006

Grade Level: 9

Prerequisite: **Completed application submitted and if required, admitted via lottery selection.**

Graduation: Fulfills the first year of the four year English requirement

A-G: Meets "B" requirement

This class is limited to students enrolled in the Medical and Health Services Academy. This course will include orientation and instruction in college preparatory language art skills including composition, grammar, reading, and speaking. Reading analysis and the writing process will be emphasized. This course is common core based and will provide the necessary skills for more advanced work. Student will be working in cooperation with other Medical and Health Services Academy classes emphasizing cross-curricular units, activities, and projects with a shared theme. Students should expect homework 3-4 nights per week.

English 1 Pre AP Medical Health Services Academy 1016

Grade Level: 9

Prerequisite: **"B" or better in 8th Grade English and current English teacher signature.**

Completed application submitted and if required, admitted via lottery selection.

Graduation: Fulfills the first year of the four year English requirement

A-G: Meets "B" requirement

This class is limited to students enrolled in the Medical and Health Services Academy. Students must also meet proficiency criteria for enrollment. Pre-AP students will develop critical reading and writing skills in preparation for more advanced work. Students in this course will learn SAT vocabulary. They will write daily and be responsible for reading 500 pages for SSR each semester. A summer assignment will be required prior to starting this class. Student will be working in cooperation with other Medical and Health Services Academy classes emphasizing cross-curricular units, activities, and projects with a shared theme. Students should expect homework daily.

English 2P Medical Health Service Academy 1135

Grade Level: 10

Prerequisite: **None**

Graduation: Fulfills the second year of the four year English requirement

A-G: Meets "B" requirement

This college preparatory course offers further development of the language arts skills previously practiced. Vocabulary, grammar, reading, writing and speaking skills are further refined and integrated in a common core based program. Students are required to read and respond critically to different literary genres. Students should expect homework 3-4 nights per week.

English 2 Pre AP Medical Health Services Academy 1155

Grade Level: 10

Prerequisite: **“C” or better in current English class.**

Graduation: Fulfills the second year of the four year English requirement

A-G: Meets “B” requirement

This class is limited to students enrolled in the Medical and Health Services Academy. This course will cover the same core material from English 2, but is for students intending to enroll in Advanced Placement English in 11th and 12th grade. It is a fast-paced, challenging course that will develop and refine reading and writing skills. Student will be working in cooperation with other Medical and Health Services Academy classes emphasizing cross-curricular units, activities, and projects with a shared theme. Students should expect homework daily.

English 3 P Medical Health Services Academy 1265

Grade Level: 11

Prerequisite: **None**

Graduation: Fulfills the third year of the four year English requirement

A-G: Meets “B” requirement

This college preparatory class builds and expands on skills taught in English 1 and 2. The curriculum is common core based. Students will respond critically to core literature through writing, listening and speaking. The writing process is emphasized as performance expectations increase. Students should expect homework daily.

English 4 P Medical Health Services Academy 1392

Grade Level: 12

Prerequisite: **None**

Graduation: Fulfills the fourth year of the four year English requirement

A-G: Meets “B” requirement

This class is limited to students enrolled in the Medical and Health Services Academy. This college prep class builds and expands on skills taught in previous English classes. Students will study literature and continue to develop grammar and vocabulary skills in a common core based program. Critical analysis, thoughtful discussion and writing are emphasized. Students should expect homework daily.

MHSA HEALTH CONCEPTS

Health Concepts I 3440

Grade Level: 9

Prerequisite: **None**

Graduation: Fulfills 10 Elective credits

UC/CSU: No

This Survey course will introduce the medical sciences in the context of medical and health professions. Students will cover topics such as human biology, medical microbiology, pathology, nutrition and wellness, and medical ethics. As students learn about these topics they will be learning about the various professions within that topic, the formal medical terminology associated with the topic as well as the science related to the topic. Students will be expected to participate in interdisciplinary lessons and projects within the Medical and Health Services Academy.

MHSA SCIENCE

Enhanced Biology Medical Health Services Academy 3164

Grade Level: 9

Prerequisite: **“B” or better in 8th grade Science and current Science signature teacher.**

Graduation: Fulfills Life Science credits

A-G: Meets “D” requirement

This course is limited to students who are currently enrolled in the Medical and Health Services Academy. Pre-AP Biology is a more challenging lab-based course than general Biology. This course is similar in content to general biology but will require more intense mastery of subject matter, and more academic demands will be placed upon the student. This course is also designed to prepare students for Advanced Biology AP. In addition, students will be expected to work in cooperation with other Medical and Health Services Academy course emphasizing cross-curricular units, activities and projects within the medial and health services context.

Chemistry P Medical Health Services Academy 3371

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P and Algebra 1 P, concurrent enrollment in Geometry or higher level math course .**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

This course is limited to students who are currently enrolled in the Medical and Health Services Academy. Chemistry is a college preparatory science course that studies the structure and properties of matter. This class is lab-based in nature and explores the following topics: lab safety and procedures, matter and its classification, molarity, chemical calculations, the periodic table of elements, chemical bonding, atomic structure, chemical reactions, and acid/base relationships. Math background must be sufficient to handle the following areas: graphing, conversions, scientific notation, metrics and the ability to use mathematical formulas. In addition, students will be expected to work in cooperation with other Medical and Health Services Academy course emphasizing cross- curricular units, activities and projects within the medial and health services context.

Enhanced Chemistry Medical Health Services Academy 3372

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P and Algebra 1 P or higher level math.**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

This course is limited to students who are currently enrolled in the Medical and Health Services Academy. Chemistry Honors explores similar content as Chemistry CP but at a more in depth level. Chemistry Honors is designed for students who excel in math and science and are interested in continuing their science education. Students' skills and motivation must be strong since chemistry concepts are covered at an accelerated pace. In addition, students will be expected to work in cooperation with other Medical and Health Services Academy course emphasizing cross-curricular units, activities and projects within the medial and health services context.

Physics P Medical Health Services Academy 3381

Grade Level: 10, 11, 12

Prerequisite: **“C” or better in Biology P and Algebra 1 P, concurrent enrollment in Geometry or higher level math course.**

Graduation: Fulfills 10 Physical Science credits

A-G: Meets “D” requirement

Medical Physics is the third year science course for the Medical and Health Services Academy. This course will use Medical and Health phenomena to provide students with a foundation in physics in order to meet NGSS physics standards. For example, this course will use phenomena in biomechanics to discuss force and the laws of motion. Other topics will include: momentum, collisions, universal gravity, waves, light and optics, electrostatics, electricity and circuits, magnetism and electromagnetic induction, energy, nuclear radiation. This course will incorporate several NGSS Earth Science Standards integrating a medical and health focus when appropriate. Students are expected to participate in interdisciplinary lessons and projects in the Medical and Health Services Academy. This is one of three science courses that are required for high school graduation.

MHSA ELECTIVES

Medical Terminology 3410

Grade Level: 9, 10, 11, 12

Prerequisite: **None**

Graduation: Fulfills 10 Elective credits.

A-G: No

This year-long course emphasizes on terminology associated with medicine, anatomy, diseases, instruments, and diagnostic and therapeutic techniques used in the medical fields by learning word parts or word roots such as prefixes, combining forms, and suffixes which is organized by body systems such as muscular, digestive, and cardiovascular, etc. It is also beneficial to students in mastering of science vocabulary in other courses such as biology, chemistry, human physiology/ anatomy and physics.